







# INDEX OF PATENTS

RELATING TO

# ELECTRICITY,

EMBRACING PATENTS ISSUED BY

THE UNITED STATES PATENT OFFICE

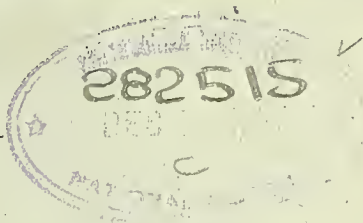
FROM JULY 1, 1886, TO JUNE 30, 1887.

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APPENDIX No. VI.



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COMPILED UNDER THE DIRECTION OF THE COMMISSIONER OF PATENTS.



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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1888.





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# APPENDIX No. VI.

## PART I.

CONSISTING OF A

### SUB-CLASS INDEX OF ALL PATENTS

RELATING TO

## ELECTRICITY

Issued from July 1, 1886, to June 30, 1887, inclusive, giving names of Inventors,  
and dates and numbers of Patents in each sub-class in  
numerical and chronological order.

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# CLASSIFIED INDEX

## OF

# PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1886, TO JUNE 30, 1887.

### 171. GENERATION.—6. BATTERIES—GALVANIC.

No.	NAME.	DATE.	No.	NAME.	DATE.
344,946	De Solomé, G. F.-----	July 6, 1886	357,550	Chase, S. A.-----	Feb. 8, 1887
344,947	De Solomé, G. F.-----	July 6, 1886	357,642	Tasker, W. H. and Jones T. J.---	Feb. 15, 1887
345,756	Wirt, C.-----	July 20, 1886	357,646	Upward, A. R. and Pridham, C. W.---	Feb. 15, 1887
346,032	Erhard, T.-----	July 20, 1886			
346,053	Lugo, O.-----	July 20, 1886	358,019	Curtis, C. G. and Crocker, F. B.---	Feb. 22, 1887
346,207	Le Grande, W. W.-----	July 27, 1886	358,030	Frishmuth, W.-----	Feb. 22, 1887
346,395	Brewer, H. J.-----	July 27, 1886	358,031	Frishmuth, W.-----	Feb. 22, 1887
347,259	Starr, E. T.-----	Aug. 10, 1886	358,087	Tasker, W. H. and Jones, T. J.---	Feb. 22, 1887
347,440	Partz, A. F. W.-----	Aug. 17, 1886	358,314	Wheeler, S. S. and Curtis, C. G.---	Feb. 22, 1887
347,754	Woodward, H.-----	Aug. 17, 1886	358,386	Crocker, F. B. and Curtis, C. G.---	Feb. 22, 1887
347,823	Neyraud, J. B.-----	Aug. 24, 1886	358,464	Perreur-Lloyd, J. B.-----	Mar. 1, 1887
348,901	Goldner, W. C.-----	Sept. 7, 1886	359,055	Brewer, H. J.-----	Mar. 8, 1887
349,222	Jarriant, B.-----	Sept. 14, 1886	359,063	Desruelles, L. A. W.-----	Mar. 8, 1887
349,380	Bazin, E.-----	Sept. 21, 1886	359,690	Pollak, K.-----	Mar. 22, 1887
349,600	Piper, C. E.-----	Sept. 21, 1886	359,835	Beattie, J., jr.-----	Mar. 22, 1887
350,294	Cox, H. B.-----	Oct. 5, 1886	360,024	Kookogey, W. P.-----	Mar. 29, 1887
350,296	Desruelles, L. A. W.-----	Oct. 5, 1886	360,158	Jablochkoff, P.-----	Mar. 29, 1887
350,297	Desruelles, L. A. W.-----	Oct. 5, 1886	360,532	Kookogey, W. P.-----	Apr. 5, 1887
350,621	Drescher, L.-----	Oct. 12, 1886	361,004	Fitch, D. H.-----	Apr. 12, 1887
351,602	Hirlimann, C. J.-----	Oct. 26, 1886	361,794	Walker, S. F.-----	Apr. 26, 1887
352,324	Hoffman, J. W.-----	Nov. 9, 1886	362,531	Partz, A. F. W.-----	May 10, 1887
352,486	Patterson, W. R.-----	Nov. 9, 1886	362,584	Misell, D.-----	May 10, 1887
352,877	Leland, E. J.-----	Nov. 16, 1886	362,847	Lugo, O.-----	May 10, 1887
353,141	Kendall, J. A.-----	Nov. 23, 1886	363,562	Tichenor, A. C.-----	May 24, 1887
353,757	Partz, A. F. W.-----	Dec. 7, 1886	363,880	Bailey, M. and Warner, J.-----	May 31, 1887
354,434	O'Keenan, C. E.-----	Dec. 14, 1886	364,344	Hard, J. R.-----	June 7, 1887
355,412	Quinby, W. C.-----	Jan. 4, 1887	364,639	Franken, V. and Bender, E.-----	June 14, 1887
356,261	Pearce, J. E.-----	Jan. 18, 1887	364,656	Kookogey, W. P.-----	June 14, 1887
356,727	Perry, N. W.-----	Jan. 25, 1887	364,660	Meserole, A. V.-----	June 14, 1887
356,796	Slattery, M. M. M.-----	Feb. 1, 1887	365,359	Germain, P.-----	June 21, 1887

### 171. GENERATION.—72. BATTERIES—SECONDARY.

344,882	Trippe, S. L.-----	July 6, 1886	354,352	Sass, V. and Friederich, K.-----	Dec. 14, 1886
344,957	Farbaky, S. and Schenek, S.---	July 6, 1886	356,390	Barral de Montaud, C.-----	Jan. 18, 1887
345,124	De Virloy, A. L., Commelin, E. and Bailhache, G.-----	July 6, 1886	358,092	Van Gestel, J. T.-----	Feb. 22, 1887
			358,111	Fitz-Gerald, D. G.-----	Feb. 22, 1887
345,511	Khotinsky, A.-----	July 13, 1886	358,120	Jones, T. J.-----	Feb. 22, 1887
347,023	Berliner, E.-----	Aug. 10, 1886	358,341	Elieson, C. P.-----	Feb. 22, 1887
347,231	De Khotinsky, A.-----	Aug. 10, 1886	359,072	Griscom, W. W.-----	Mar. 8, 1887
347,258	Starr, E. T.-----	Aug. 10, 1886	359,248	Farbaky, S. and Schenek, S.---	Mar. 15, 1887
347,300	Julien, E.-----	Aug. 10, 1886	359,876	Meserole, A. V.-----	Mar. 22, 1887
348,482	Trippe, S. L.-----	Aug. 31, 1886	359,877	Meserole, A. V.-----	Mar. 22, 1887
348,625	Farbaky, S. and Schenek, S.---	Sept. 7, 1886	359,934	Main, W.-----	Mar. 22, 1887
352,708	Moses, O. A.-----	Nov. 16, 1886	360,375	Conant, T. P.-----	Mar. 29, 1887
353,248	Buell, C. E.-----	Nov. 23, 1886	362,639	Ludlow, W. I.-----	May 10, 1887
353,511	Sorley, C.-----	Nov. 30, 1886	362,640	Ludlow, W. I.-----	May 10, 1887
354,272	Thomson, E.-----	Dec. 14, 1886			

## 171. GENERATION.—74. BATTERIES—SECONDARY—APPLICATIONS.

No.	NAME.	DATE.	No.	NAME.	DATE.
347,768	Buell, C. E.-----	Aug. 24, 1886	357,873	Starr, E. T.-----	Feb. 15, 1887
353,142	Knowles, E. R.-----	Nov. 23, 1886	359,900	Starr, E. T.-----	Mar. 22, 1887
353,797	Marshall, J. H.-----	Dec. 7, 1886	359,901	Starr, E. T.-----	Mar. 22, 1887
357,627	Prescott, G. B., jr.-----	Feb. 15, 1887	365,460	Buell, C. E.-----	June 28, 1887

## 171. GENERATION.—95. GALVANOMETERS.

345,755	Wirt, C.-----	July 20, 1886	356,042	Howell, J. W.-----	Jan. 11, 1887
351,388	Mather, R. H.-----	Oct. 26, 1886	359,619	Macrae, R.-----	Mar. 22, 1887
353,649	Waddell, M.-----	Nov. 30, 1886	362,451	Lange, P.-----	May 3, 1887
353,915	Bradley, C. S.-----	Dec. 7, 1886	363,333	Hammer, W. J.-----	May 17, 1887
356,041	Howell, J. W.-----	Jan. 11, 1887			

## 171. GENERATION.—27. INDUCTION-COILS.

344,818	Drawbaugh, D.-----	July 6, 1886	354,274	Thomson, E.-----	Dec. 14, 1886
346,528	Beattie, J., jr.-----	Aug. 3, 1886	358,415	Slattery, M. M. M.-----	Feb. 22, 1887
348,465	Hard, J. R.-----	Aug. 31, 1886	358,793	Slattery, M. M. M.-----	Mar. 1, 1887
349,611	Stanley, W., jr.-----	Sept. 21, 1886	360,198	Bláthy, O. T.-----	Mar. 29, 1887
349,612	Stanley, W., jr.-----	Sept. 21, 1886	360,934	Waite, H. E.-----	Apr. 12, 1887
349,616	Stanley, W., jr.-----	Sept. 21, 1886	361,587	Gross, M. H.-----	Apr. 19, 1887
349,617	Stanley, W., jr.-----	Sept. 21, 1886	363,304	Stanley, L. T.-----	May 17, 1887
351,077	Stögermayr, F. F.-----	Oct. 19, 1886	363,851	Ritchie, J.-----	May 31, 1887
352,084	Drescher, L.-----	Nov. 2, 1886	365,116	Bollmann, L.-----	June 21, 1887
352,105	Zipernowsky, K., Déri, M. and Bláthy, O. T.-----	Nov. 2, 1886			

## 171. GENERATION.—33. MAGNETO-ELECTRIC.

345,336	Thomson, E.-----	July 13, 1886	354,538	Curtis, C. G. and Crocker, F. B.-----	Dec. 21, 1886
346,965	Warner, E. P.-----	Aug. 10, 1886	354,539	Curtis, C. G. and Wheeler, S. S.-----	Dec. 21, 1886
348,883	Bossard, A.-----	Sept. 7, 1886	354,588	Wheeler, S. S. and Curtis, C. G.-----	Dec. 21, 1886
349,392	Hansell, W.-----	Sept. 21, 1886	354,791	Irwin, J. H.-----	Dec. 21, 1886
349,615	Stanley, W., jr.-----	Sept. 21, 1886	354,945	Sperry, E. A.-----	Dec. 28, 1886
349,716	Higham, E. T. and D.-----	Sept. 28, 1886	354,946	Sperry, E. A.-----	Dec. 28, 1886
349,912	Thomson, E.-----	Sept. 28, 1886	355,738	Williamson, D.-----	Jan. 11, 1887
350,000	Jenkins, J.-----	Sept. 28, 1886	356,667	Short, S. H.-----	Jan. 25, 1887
350,003	Kennedy, R.-----	Sept. 28, 1886	356,902	Thomson, E.-----	Feb. 1, 1887
350,154	Radford, B. F.-----	Oct. 5, 1886	357,295	Westinghouse, G., jr., and Schmid, A.-----	Feb. 8, 1887
351,148	Adams, T. E.-----	Oct. 19, 1886			
351,167	Diehl, P.-----	Oct. 19, 1886	357,705	Easton, J. W.-----	Feb. 15, 1887
351,544	Walter, H. E.-----	Oct. 26, 1886	358,340	Eickemeyer, R.-----	Feb. 22, 1887
351,902	Eickemeyer, R.-----	Nov. 2, 1886	360,816	Snowberger, J.----- (Reis.)	Mar. 8, 1887
351,903	Eickemeyer, R.-----	Nov. 2, 1886	359,748	Tesla, N.-----	Mar. 22, 1887
351,904	Eickemeyer, R.-----	Nov. 2, 1886	359,894	Sheehy, R. J.-----	Mar. 22, 1887
351,906	Eickemeyer, R.-----	Nov. 2, 1886	360,030	Leipner, W. A.-----	Mar. 29, 1887
351,907	Eickemeyer, R.-----	Nov. 2, 1886	360,258	Walter, H. E. and Batchelor, C.-----	Mar. 29, 1887
352,074	Van Depoele, C. J.-----	Nov. 2, 1886	360,259	Walter, H. E. and Batchelor, C.-----	Mar. 29, 1887
352,234	Eickemeyer, R.-----	Nov. 9, 1886	361,273	Easton, J. W.-----	Apr. 19, 1887
353,035	Howell, J. W.-----	Nov. 23, 1886	361,770	Main, W.-----	Apr. 26, 1887
353,151	Mather, R. H.-----	Nov. 23, 1886	361,896	Schmid, A.-----	Apr. 26, 1887
353,164	Schmid, A.-----	Nov. 23, 1886	361,973	Warner, E. P.-----	Apr. 26, 1887
353,310	Keith, N. S.-----	Nov. 30, 1886	363,126	Easton, J. W.-----	May 17, 1887
353,414	Coerper, C.-----	Nov. 30, 1886	363,127	Easton, J. W.-----	May 17, 1887
353,989	Sperry, E. A.-----	Dec. 7, 1886	363,128	Easton, J. W.-----	May 17, 1887
354,292	Williamson, D.-----	Dec. 14, 1886	363,129	Easton, J. W.-----	May 17, 1887

## 171. GENERATION.—76. MAGNETO-ELECTRIC—HAND-MACHINES.

353,827	Smith, H. J.-----	Dec. 7, 1886	361,737	Wilkins, G. A.-----	Apr. 26, 1887
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## 171. GENERATION.—34. METERS.

346,957	Stevens, W. L.-----	Aug. 10, 1886	355,871	Gordon, J. E. H.-----	Jan. 11, 1887
348,648	Weston, E.-----	Sept. 7, 1886	362,322	Sheehy, R. J.-----	May 3, 1887

## 171. GENERATION.—40. REGULATORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
347,204	Short, S. H. -----	Aug. 10, 1886	353,990	Sperry, E. A. -----	Dec. 7, 1886
347,937	Hunter, R. M. -----	Aug. 24, 1883	354,273	Thomson, E. -----	Dec. 14, 1886
347,964	Shallenberger, O. B. -----	Aug. 24, 1886	354,606	Mather, R. H. -----	Dec. 21, 1886
348,385	Deprez, M. and Carpentier, J. -----	Aug. 31, 1886	355,729	Stevens, W. L. -----	Jan. 11, 1887
348,876	Wightman, M. J. -----	Sept. 7, 1886	357,115	Buckingham, C. L. -----	Feb. 1, 1887
350,676	Hering, C. -----	Oct. 12, 1886	357,293	Shallenberger, O. B. -----	Feb. 8, 1887
350,754	Loomis, O. P. and Cooley, H. W. -----	Oct. 12, 1886	358,133	Vivó y Graells, F. -----	Feb. 22, 1887
350,954	Tesla, N. -----	Oct. 19, 1886	358,493	Slattery, M. M. M. -----	Mar. 1, 1887
351,351	Adams, T. E. -----	Oct. 26, 1886	359,101	Shallenberger, O. B. -----	Mar. 8, 1887
351,699	Houghton, E. J. and Collet, T. M. -----	Oct. 26, 1886	359,770	Buckingham, C. L. -----	Mar. 22, 1887
			359,805	McLaughlin, J. F. -----	Mar. 22, 1887
351,961	Brush, C. F. -----	Nov. 2, 1886	361,116	Baxter, W., jr. -----	Apr. 12, 1887
353,179	Thomson, E. -----	Nov. 23, 1886	361,712	Perkins, C. G. -----	Apr. 26, 1887
353,180	Thomson, E. -----	Nov. 23, 1886	362,510	Higham, E. T. and D. -----	May 10, 1887
353,367	Meston, A. W. -----	Nov. 30, 1886	363,184	Thomson, E. -----	May 17, 1887
353,986	Sperry, E. A. -----	Dec. 7, 1886	365,465	Edison, T. A. -----	June 28, 1887
353,988	Sperry, E. A. -----	Dec. 7, 1886			

## 171. GENERATION.—97. SYSTEMS OF DISTRIBUTION.

345,212	Byllesby, H. M. -----	July 6, 1886	354,783	Gordon, J. E. H. -----	Dec. 21, 1886
347,642	Ripley, R. A. -----	Aug. 17, 1886	358,346	Gordon, J. E. H. -----	Feb. 22, 1887
350,482	Diehl, P. -----	Oct. 12, 1886	360,122	Thomson, E. -----	Mar. 29, 1887
351,589	Gaulard, L. and Gibbs, J. D. -----	Oct. 26, 1886	360,125	Thomson, E. -----	Mar. 29, 1887
352,691	Howell, J. W. -----	Nov. 16, 1886			

## 172. MOTIVE POWER.—9. CAR BRAKES.

345,700	Kinsman, F. E. -----	July 20, 1886	357,576	Card, G. F. -----	Feb. 15, 1887
347,075	Timmis, I. A. and Forbes, G. -----	Aug. 10, 1886	357,760	Card, G. F. -----	Feb. 15, 1887
347,904	Van Depoele, C. J. -----	Aug. 24, 1886	357,976	Card, G. F. -----	Feb. 15, 1887
348,360	Van Depoele, C. J. -----	Aug. 31, 1886	358,866	Massey, A. P. -----	Mar. 8, 1887
348,636	Park, H. S. -----	Sept. 7, 1886	359,593	Carpenter, J. F. -----	Mar. 22, 1887
349,738	Park, H. S. -----	Sept. 28, 1886	360,060	Sperry, E. A. -----	Mar. 29, 1887
351,650	Park, H. S. -----	Oct. 26, 1886	360,179	Solano, R. -----	Mar. 29, 1887
352,167	Van Depoele, C. J. -----	Nov. 9, 1886	361,089	Selden, C. -----	Apr. 12, 1887
353,880	Park, H. S. -----	Dec. 7, 1886	361,090	Selden, C. -----	Apr. 12, 1887
356,963	Ries, E. E. -----	Feb. 1, 1887	363,463	Hollerith, H. -----	May 24, 1887
356,964	Ries, E. E. -----	Feb. 1, 1887	363,464	Hollerith, H. -----	May 24, 1887

## 172. MOTIVE POWER.—15. DENTAL INSTRUMENTS.

362,310	Parsons, H. W. -----				May 3, 1887
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## 172. MOTIVE POWER.—75. LOCOMOTION.

344,962	Harris, R. L. -----	July 6, 1886	353,829	Sprague, F. J. -----	Dec. 7, 1886
345,845	Henry, J. C. -----	July 20, 1886	354,350	Samuel, E. -----	Dec. 14, 1886
345,884	Chinnock, C. E. -----	July 20, 1886	354,793	Knight, W. H. -----	Dec. 21, 1886
346,465	Chandler, T. P., jr. -----	Aug. 3, 1886	356,579	Erhardt, H. -----	Jan. 25, 1887
346,724	Chandler, T. P., jr. -----	Aug. 3, 1886	357,516	Atwater, J. B. -----	Feb. 8, 1887
346,902	Edgar, E. F. -----	Aug. 10, 1886	358,043	Knight, W. H. -----	Feb. 22, 1887
346,963	Van Depoele, C. J. -----	Aug. 10, 1886	358,512	Van Depoele, C. J. -----	Mar. 1, 1887
346,990	Finney, J. R. -----	Aug. 10, 1886	358,609	Harris, R. L. -----	Mar. 1, 1887
347,901	Van Depoele, C. J. -----	Aug. 24, 1886	359,050	Bentley, E. M. -----	Mar. 8, 1887
347,905	Van Depoele, C. J. -----	Aug. 24, 1886	359,540	McLaughlin, J. F. -----	Mar. 15, 1887
348,008	Harris, R. L. -----	Aug. 24, 1886	359,607	Heysinger, I. W. -----	Mar. 22, 1887
348,476	Short, S. H. and Nesmith, J. W. -----	Aug. 31, 1886	361,676	Daft, L. -----	Apr. 26, 1887
348,477	Short, S. H. and Nesmith, J. W. -----	Aug. 31, 1886	362,323	Short, S. H. and Nesmith, J. W. -----	May 3, 1887
348,792	Smith, M. H. -----	Sept. 7, 1886	363,250	McElroy, W. J. and Nicholson, J. D. -----	May 17, 1887
348,880	Averell, W. W. -----	Sept. 7, 1886			
352,265	Ries, E. E. -----	Nov. 9, 1886	365,339	Hamilton, B. F. -----	June 21, 1887
353,086	Shaw, E. S. -----	Nov. 23, 1886	365,340	Hamilton, B. F. -----	June 21, 1887
353,335	Van Depoele, C. J. -----	Nov. 30, 1886	365,341	Hamilton, B. F. -----	June 21, 1887



## 172. MOTIVE POWER.—36. MOTORS.

No.	NAME.	DATE.	No.	NAME.	DATE.
345,334	Thomson, E. -----	July 13, 1886	356,834	Griscom, W. W. -----	Feb. 1, 1887
345,720	Parcelle, A. L. -----	July 20, 1886	356,878	Houston, E. J. -----	Feb. 1, 1887
346,527	Beattie, J., jr. -----	Aug. 3, 1886	357,374	Darling, W. H. and Book, L., jr. -----	Feb. 8, 1887
347,902	Van Depoele, C. J. -----	Aug. 24, 1886	358,682	Long, M. W. -----	Mar. 1, 1887
347,903	Van Depoele, C. J. -----	Aug. 24, 1886	358,753	Rogers, J. H. -----	Mar. 1, 1887
349,563	Bossard, A. -----	Sept. 21, 1886	359,429	Clark, E. P. -----	Mar. 15, 1887
349,654	Keegan, V. E. -----	Sept. 21, 1886	360,216	Fisher, F. E. -----	Mar. 29, 1887
349,715	Higham, E. T. and D. -----	Sept. 28, 1886	361,115	Baxter, W., jr. -----	Apr. 12, 1887
353,003	Recordon, E. -----	Nov. 23, 1886	361,117	Baxter, W., jr. -----	Apr. 12, 1887
350,025	Vogler, R. -----	Sept. 28, 1886	361,274	Baston, J. W. -----	Apr. 19, 1887
350,668	Diehl, P. -----	Oct. 12, 1886	361,829	Marvin, H. N. -----	Apr. 26, 1887
350,728	Fisher, F. E. -----	Oct. 12, 1886	362,798	Van Depoele, C. J. -----	May 10, 1887
351,229	Walter, H. -----	Oct. 19, 1886	363,185	Thomson, E. -----	May 17, 1887
353,987	Sperry, E. A. -----	Dec. 7, 1886	363,186	Thomson, E. -----	May 17, 1887
354,111	Edgerton, N. H. -----	Dec. 14, 1886	363,466	Hunter, R. M. -----	May 24, 1887
355,024	Paine, H. M. -----	Dec. 28, 1886	363,669	Paine, H. M. -----	May 24, 1887
355,771	Linville, J. H. -----	Jan. 11, 1887	364,086	Card, G. F. -----	May 31, 1887
356,576	Diehl, P. -----	Jan. 25, 1887			

## 172. MOTIVE POWER.—8. STEERING AND PROPULSION.

352,374	Tilden, J. A. -----	Nov. 9, 1886	359,313	Bennett, H. M. -----	Mar. 15, 1887
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## 172. MOTIVE POWER.—83. TRANSMISSION OF POWER.

361,843	Sperry, E. A. -----				Apr. 26, 1887
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## 173. CONDUCTORS.—13. CONDUCTORS.

10,846	Williams, J. B. ----- (Reis.)	June 21, 1887	355,493	Wiley, G. L. -----	Jan. 4, 1887
344,823	Fottrell, J. -----	July 6, 1886	355,753	Bardonnaut, P. E. -----	Jan. 11, 1887
346,414	Patterson, W. R. -----	July 27, 1886	356,156	Patterson, W. R. -----	Jan. 13, 1887
346,433	Duplain, F. P. -----	July 27, 1886	356,207	Patterson, W. R. -----	Jan. 18, 1887
346,645	Cruikshank, G. M. -----	Aug. 3, 1886	358,140	Barrett, J. A. -----	Feb. 22, 1887
348,822	Belk, J. C. -----	Sept. 7, 1886	359,726	Johnson, E. H. -----	Mar. 22, 1887
348,994	Pearce, T. J. and Beardsley, M. W. -----	Sept. 14, 1886	359,825	Thompson, C. M. -----	Mar. 22, 1887
349,893	McGill, S. F. -----	Sept. 28, 1886	360,567	Dunham, T. H. -----	Apr. 5, 1887
351,191	McCracken, E. D. -----	Oct. 19, 1886	360,925	Solano, R. -----	Apr. 12, 1887
351,192	McCracken, E. D. -----	Oct. 19, 1886	361,217	Flad, H. -----	Apr. 12, 1887
351,611	Alexander, R. -----	Oct. 26, 1886	361,265	Clokey, J. M. -----	Apr. 19, 1887
352,445	Butler, J. W. -----	Nov. 9, 1886	361,705	Litchfield, I. W. -----	Apr. 26, 1887
352,852	Brooks, D., jr. -----	Nov. 16, 1886	361,731	Stewart, S. B. -----	Apr. 26, 1887
353,653	Van Depoele, C. J. -----	Nov. 30, 1886	362,076	Gilson, S. H. -----	May 3, 1887
354,320	Johnson, E. H. -----	Dec. 14, 1886	362,108	Perkins, C. G. -----	May 3, 1887
355,491	Wiley, G. L. -----	Jan. 4, 1887	362,376	Gould, C. C. and Smith, W. -----	May 3, 1887
355,492	Wiley, G. L. -----	Jan. 4, 1887	362,872	Brooks, D. -----	May 10, 1887
			364,994	Degenhardt, F. E. -----	June 14, 1887

## 173. CONDUCTORS.—94. CONDUCTORS—LEAD-COVERED.

345,956	Eaton, A. K. -----	July 20, 1886	363,182	Tatham, J. -----	May 17, 1887
355,843	Sloan, E. C. -----	Jan. 11, 1887	364,177	Kitson, G. L. -----	May 31, 1887
355,844	Sloan, E. C. -----	Jan. 11, 1887	364,178	Kitson, G. L. -----	May 31, 1887
356,206	Patterson, W. R. -----	Jan. 18, 1887			

## 173. CONDUCTORS.—70. CONDUCTORS—UNDERGROUND.

344,827	Grant, J. -----	July 6, 1886	349,739	Perkins, C. G. -----	Sept. 28, 1886
344,843	Macdonald, R. -----	July 6, 1886	349,797	Jagel, J. M. -----	Sept. 28, 1886
346,250	Wheaton, F. -----	July 27, 1886	350,515	Williams, B. -----	Oct. 12, 1886
346,688	Robinson, W. L. -----	Aug. 3, 1886	351,193	McCracken, E. D. -----	Oct. 19, 1886
346,840	Campbell, E. -----	Aug. 3, 1886	351,697	Greene, F. V. -----	Oct. 26, 1886
346,942	Patterson, W. R. -----	Aug. 10, 1886	351,913	Haddock, W. -----	Nov. 2, 1886
348,572	Munsie, J. F. -----	Sept. 7, 1886	352,504	Butler, J. W. -----	Nov. 9, 1886
349,472	Anderson, J. C. -----	Sept. 21, 1886	352,754	Hurlbut, S. E. -----	Nov. 16, 1886

## 173. CONDUCTORS.—70. CONDUCTORS—UNDERGROUND.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
352,771	Morehouse, H. G -----	Nov. 16, 1886	358,095	Williams, B.-----	Feb. 22, 1887
354,290	Williams, B.-----	Dec. 14, 1886	358,778	Holt, G. D. and McGinty, W. T.-----	Mar. 1, 1887
354,892	Du Bois, J. S.-----	Dec. 28, 1886	359,738	Pennock, G. B.-----	Mar. 22, 1887
355,063	Crocker, F. B.-----	Dec. 28, 1886	359,816	Sawyer, W. H.-----	Mar. 22, 1887
355,330	Locke, S. D.-----	Jan. 4, 1887	360,316	Loesner, H. and DeBravura, M.-----	Mar. 29, 1887
355,798	Sutton, G. D.-----	Jan. 11, 1887	360,655	Carpenter, B. F.-----	Apr. 5, 1887
355,867	Denison, R. A.-----	Jan. 11, 1887	361,086	Scheidt, C.-----	Apr. 12, 1887
356,151	Munsie, J. F.-----	Jan. 18, 1887	361,276	MacFarlane, J.-----	Apr. 19, 1887
356,152	Munsie, J. F.-----	Jan. 18, 1887	361,319	Paxson, I.-----	Apr. 19, 1887
356,153	Munsie, J. F.-----	Jan. 18, 1887	361,347	Crowell, C. T.-----	Apr. 19, 1887
356,981	Brooks, D.-----	Feb. 1, 1887			

## 173. CONDUCTORS.—14. CONNECTORS.

346,423	Burton, G. D.-----	July 27, 1886	355,423	Watkins, F. C.-----	Jan. 4, 1887
347,625	McIntire, C.-----	Aug. 17, 1886	355,611	Howson, H.-----	Jan. 4, 1887
349,397	Lantz, J. A.-----	Sept. 21, 1886	357,165	Capers, J. S.-----	Feb. 1, 1887
349,398	Lantz, J. A.-----	Sept. 21, 1886	358,518	Westinghouse, G., jr.-----	Mar. 1, 1887
349,809	Perkins, C. G.-----	Sept. 28, 1886	358,592	Clarke, C. L.-----	Mar. 1, 1887
350,293	Cox, H. B.-----	Oct. 5, 1886	359,982	Plume, F. C.-----	Mar. 22, 1887
350,829	Jones, L. B.-----	Oct. 12, 1886	360,672	Fertig, O. S.-----	Apr. 5, 1887
353,984	Smith, W. F.-----	Dec. 7, 1886	364,558	Wamsley, W. F. and McIntosh, T.-----	June 7, 1887
355,380	Carpenter, G. A.-----	Jan. 4, 1887	364,559	Wamsley, W. F.-----	June 7, 1887

## 173. CONDUCTORS.—28. INSULATORS.

346,475	Hawken, T.-----	Aug. 3, 1886	350,843	Rogers, C.-----	Oct. 12, 1886
346,971	Wilson, J.-----	Aug. 10, 1886	352,436	Winton, H. D.-----	Nov. 9, 1886
346,972	Wilson, J.-----	Aug. 10, 1886	352,437	Winton, H. D.-----	Nov. 9, 1886
347,454	Wilson, J.-----	Aug. 17, 1886	353,120	Brown, R. G.-----	Nov. 23, 1886
347,635	O'Brien, J.-----	Aug. 17, 1886	355,165	Hanks, M.-----	Dec. 28, 1886
347,943	Leonardson, J. M.-----	Aug. 24, 1886	359,812	Pennie, H.-----	Mar. 22, 1887
349,022	Wilson, J.-----	Sept. 14, 1886	360,354	Locke, W. F.-----	Mar. 29, 1887
349,788	Fitch, N. T.-----	Sept. 28, 1886	362,682	Van Sands, H.-----	May 10, 1887
350,365	Holdsworth, J. W.-----	Oct. 5, 1886			

## 173. CONDUCTORS.—31. LIGHTNING-RODS.

351,813	Stites, G.-----	Nov. 2, 1886	361,520	Hill, C. F.-----	Apr. 19, 1887
354,342	Pratt, C. C.-----	Dec. 14, 1886	362,062	Cole, J. W.-----	May 3, 1887
355,655	Munson, A. J.-----	Jan. 4, 1887	362,064	Daniels, E. O.-----	May 3, 1887
356,531	Grimes, C. H.-----	Jan. 25, 1887	362,801	Westcott, F.-----	May 10, 1887
357,050	Vail, J. H.-----	Feb. 1, 1887	364,605	Schoonmaker, J. H.-----	June 7, 1887
359,940	Patee, T. H. and Lawshe, S. R.-----	Mar. 22, 1887			

## 173. CONDUCTORS.—43. RHEOSTATS.

347,120	Mather, R. H.-----	Aug. 10, 1886	354,257	Slattery, M. M. M.-----	Dec. 14, 1886
347,766	Brown, H. P. and F. H.-----	Aug. 24, 1886	362,859	Stearns, J. M., jr.-----	May 10, 1887

## 173. CONDUCTORS.—86. TELEGRAPH-POLES.

347,602	Herron, H. C.-----	Aug. 17, 1886	359,622	Murray, W.-----	Mar. 22, 1887
356,403	Gould, C. C.-----	Jan. 18, 1887			

## 174. MEDICAL AND SURGICAL.—87. BATHS.

360,773	Hosford, E.-----				Apr. 5, 1887
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## 174. MEDICAL AND SURGICAL.—88. BODY-WEAR.

No.	NAME.	DATE.	No.	NAME.	DATE.
345,025	Blodgett, F. M.-----	July 6, 1886	353,346	Baldwin, C. E.-----	Nov. 30, 1886
345,178	Rockwell, R. N.-----	July 6, 1886	355,059	Charles, J.-----	Dec. 28, 1886
346,215	Murray, J. H.-----	July 27, 1886	357,647	Vander Weyde, P. H.-----	Feb. 15, 1887
347,592	Gray, I.-----	Aug. 17, 1886	360,127	Wallis, F. B.-----	Mar. 29, 1887
348,406	McGrady, J. and Sloane, G. H.-----	Aug. 31, 1886	363,886	Dunlap, W. W.-----	May 31, 1887
349,849	Kugler, G.-----	Sept. 28, 1886	364,975	Townley, L. P. and Washburn, W. J.-----	June 14, 1887
351,233	Watkins, H. W.-----	Oct. 19, 1886			

## 174. MEDICAL AND SURGICAL.—89. ELECTRODES.

359,506	Goodwillie, D. H.-----	Mar. 15, 1887	360,429	Goodwillie, D. H.-----	Apr. 5, 1887
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## 175. SPECIAL APPLICATIONS.—4. APPLICATIONS—GENERAL.

345,452	Roth, C. W.-----	July 13, 1886	358,116	Gustin, A. J.-----	Feb. 22, 1887
345,838	Giles, C. K. and Fenner, R. E.-----	July 20, 1886	359,352	Gardner, E. V.-----	Mar. 15, 1887
346,237	Smith, R. T.-----	July 27, 1886	359,902	Steffens, M. J.-----	Mar. 22, 1887
347,013	Scola, J. P. A.-----	Aug. 10, 1886	360,517	Emley, J. E.-----	Apr. 5, 1887
348,606	Worth, A. B.-----	Sept. 7, 1886	360,647	Bennett, J. B. and Samuels, F. W.-----	Apr. 5, 1887
353,403	Deckard, L. L.-----	Nov. 30, 1886	361,248	Winton, H. D.-----	Apr. 12, 1887
353,566	Lackersteen, M. H.-----	Nov. 30, 1886	361,249	Worms, E. and Balé, J.-----	Apr. 12, 1887
354,838	Michales, M. A. and Michaels, A.-----	Dec. 21, 1886	362,133	Whitney, E. R.-----	May 3, 1887
354,853	Cabell, S. G.-----	Dec. 21, 1886	363,550	Sedgwick, F.-----	May 24, 1887
358,002	Trauernicht, T. H.-----	Feb. 15, 1887	363,593	Clamer, F. J.-----	May 24, 1887
358,053	Michales, M. A. and Michaels, A.-----	Feb. 22, 1887	364,372	Rae, J. H.-----	June 7, 1887

## 175. SPECIAL APPLICATIONS.—5. APPLICATIONS—TOOLS AND MACHINES.

10,838	Curtiss, R. M.----- (Reis.)	May 31, 1887	359,303	Westinghouse, G., jr.-----	Mar. 15, 1887
345,596	Lenoir, E. J. J.-----	July 13, 1886	359,414	Wasserman, G.-----	Mar. 15, 1887
345,998	Smith, R. F.-----	July 20, 1886	359,552	Bassett, N. C.-----	Mar. 15, 1887
347,656	Smith, R. F.-----	Aug. 17, 1886	359,752	Wetmore, J. A.-----	Mar. 22, 1887
348,562	Irish, J.-----	Sept. 7, 1886	360,405	Bain, F.-----	Apr. 5, 1887
350,200	Humes, J. J. R.-----	Oct. 5, 1886	361,778	Reynolds, G. H.-----	Apr. 26, 1887
351,314	Delmage, W. A.-----	Oct. 19, 1886	361,779	Reynolds, G. H.-----	Apr. 26, 1887
352,070	Robertson, A. R.-----	Nov. 2, 1886	361,780	Reynolds, G. H.-----	Apr. 26, 1887
352,796	Baldwin, C. W.-----	Nov. 16, 1886	362,053	Ball, C. E.-----	May 3, 1887
353,123	Clark, J. H.-----	Nov. 23, 1886	362,751	Lagerman, A.-----	May 10, 1887
354,881	Bain, F.-----	Dec. 28, 1886	363,592	Crawford, C.-----	May 24, 1887
356,496	Otis, N. P.-----	Jan. 25, 1887	364,353	Kampfe, R.-----	June 7, 1887
356,940	Hunt, W. M.-----	Feb. 1, 1887	365,018	Otis, C. G.-----	June 14, 1887
357,193	Gavillet, W. and Martaresche, L.-----	Feb. 8, 1887	365,216	Winckler, E. and Heilmann, J. J.-----	June 21, 1887
358,810	Gustin, A. J.-----	Mar. 1, 1887	365,604	Ketchum, O. W.-----	June 28, 1887
358,924	Erling, P. R.-----	Mar. 8, 1887			

## 175. SPECIAL APPLICATIONS.—20. ELECTROLYSIS.

356,640	Hickley, A. S.-----	Jan. 25, 1887	360,853	Cassel, H. R.-----	Apr. 12, 1887
357,659	Fitz Gerald, D. G.-----	Feb. 15, 1887	362,022	Liepmann, H.-----	Apr. 26, 1887
359,165	Mathieu, J. A.-----	Mar. 8, 1887	362,441	Grätzel, R.-----	May 3, 1887
360,852	Cassel, H. R.-----	Apr. 12, 1887			

## 175. SPECIAL APPLICATIONS.—21. ELECTRO-MAGNETS.

350,957	Thomson, E.-----	Oct. 19, 1886	358,343	Gaiser, C. A.-----	Feb. 22, 1887
351,256	Farmer, M. G.-----	Oct. 19, 1886	362,135	Wilson, J. C.-----	May 3, 1887

## 175. SPECIAL APPLICATIONS.—96. ELECTRO-MAGNETS—MACHINES FOR WINDING.

350,828	Jones, L. B.-----	Oct. 12, 1886	363,106	Wyñne, F.-----	May 17, 1887
359,205	Curtis, C. G., Wheeler, S. S., and Crocker, F. B.-----	Mar. 8, 1887			



## 175. SPECIAL APPLICATIONS.—16. HEATERS.

No.	NAME.	DATE.	No.	NAME.	DATE.
347,140	Thomson, E -----	Aug. 10, 1886	357,572	Burton, W. L -----	Feb. 15, 1887
347,141	Thomson, E -----	Aug. 10, 1886	360,144	Cowles, E. H. and A. H. -----	Mar. 29, 1887
347,142	Thomson, E -----	Aug. 10, 1886	363,320	Benardos, N. de and Olszewski, S	May 17, 1887
350,445	Potter, E. B -----	Oct. 5, 1886			

## 175. SPECIAL APPLICATIONS.—92. IGNITING DEVICES.

346,533	Crockett, C. H. and Allen, C. C. -----	Aug. 3, 1886	360,696	Holtzer, C. W -----	Apr. 5, 1887
349,533	Smith, A. T -----	Sept. 21, 1886	364,235	Fisher, I -----	June 7, 1887
352,473	Lüngen, A -----	Nov. 9, 1886	364,760	Holtzer, C. W -----	June 14, 1887
359,053	Bosworth, C. B -----	Mar. 8, 1887			

## 175. SPECIAL APPLICATIONS.—25. INCRUSTATION.

354,637	Hart, G. W -----				Dec. 21, 1886
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## 175. SPECIAL APPLICATIONS.—93. MAGNETIC LOCKS AND BOLTS.

347,029	Fisher, W. C -----	Aug. 10, 1886	351,600	Henzel, C. and Wood, W -----	Oct. 26, 1886
347,068	Sedgwick, F -----	Aug. 10, 1886	352,154	Rousseau, D -----	Nov. 9, 1886
347,069	Sedgwick, F -----	Aug. 10, 1886	353,263	Lüngen, A -----	Nov. 23, 1886
347,070	Sedgwick, F -----	Aug. 10, 1886	358,417	Summers, L. P -----	Feb. 22, 1887
347,071	Sedgwick, F -----	Aug. 10, 1886	358,975	Henzel, G. L -----	Mar. 8, 1887
350,312	Marklaod, W. H. -----	Oct. 5, 1886	363,623	Flowers, M. I -----	May 24, 1887

## 175. SPECIAL APPLICATIONS.—90. SEPARATORS.

345,383	Kessler, H. P. J -----	July 13, 1886	354,923	Mindeleff, D -----	Dec. 28, 1886
348,121	Gilbert, G. A -----	Aug. 24, 1886	358,961	Convers, A. E -----	Mar. 8, 1887
348,771	Payne, C. Q -----	Sept. 7, 1886	359,085	Mansfield, G. W -----	Mar. 8, 1887
349,422	Bartlett, C. O -----	Sept. 21, 1886	360,842	Atkins, C. H -----	Apr. 12, 1887
350,945	Roth, C. W -----	Oct. 19, 1886			

## 175. SPECIAL APPLICATIONS.—86. TELEGRAPH-POLES.

349,049	Lippincott, J. E -----				Sept. 14, 1886
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## 175. SPECIAL APPLICATIONS.—84. VALVE-CONTROLLERS.

346,505	Sears, J. W -----	Aug. 3, 1886	358,520	Westinghouse, G., jr -----	Mar. 1, 1887
347,589	Ghegan, J. J -----	Aug. 17, 1886	358,521	Westinghouse, G., jr -----	Mar. 1, 1887
347,707	Grovesteen, M. W -----	Aug. 17, 1886	358,691	Page, E. C. and Soden, F. II --	Mar. 1, 1887
349,109	Lenaerts, L -----	Sept. 14, 1886	358,713	Westinghouse, G., jr -----	Mar. 1, 1887
351,419	Woolley, L. G -----	Oct. 26, 1886	359,673	Grovesteen, M. W -----	Mar. 22, 1887
352,044	Cox, H. B -----	Nov. 2, 1886	363,079	Pease, W. M -----	May 17, 1887
357,055	Weil, L -----	Feb. 1, 1887	365,040	Bassett, G. B -----	June 21, 1887
357,056	Weil, L -----	Feb. 1, 1887			

## 176. ELECTRIC LIGHTING.—80. CUTS-OUTS—ELECTRO-MAGNETIC.

350,519	Woolley, L. G -----	Oct. 12, 1886	356,008	Paige, A. E -----	Jan. 11, 1887
350,955	Thomson, E -----	Oct. 19, 1886	360,123	Thomson, E -----	Mar. 29, 1887
352,035	Brown, H. P -----	Nov. 2, 1886	360,124	Thomson, E -----	Mar. 29, 1887
353,334	Van Depoele, C. J -----	Nov. 30, 1886	361,844	Sperry, E. A -----	Apr. 26, 1887
355,739	Wilmarth, F. H -----	Jan. 11, 1887			

## 176. ELECTRIC LIGHTING.—79. CUT-OUTS—MECHANICAL.

348,455	Fairchild, J. M -----	Aug. 31, 1886	356,038	Gould, C. C -----	Jan. 11, 1887
348,456	Fairchild, J. M. and O'Connor, J	Aug. 31, 1886	356,632	Fuchs, J -----	Jan. 25, 1887
353,603	Stanley, W., jr -----	Nov. 30, 1886	362,469	Swan, A -----	May 3, 1887



## 176. ELECTRIC LIGHTING.—79. CUT-OUTS—MECHANICAL.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
363,183	Thomson, E -----	May 17, 1887	365,189	Lemp, H. and Wightman, M. J. -	June 21, 1887
363,334	Hammer, W. J -----	May 17, 1887	365,585	Davis, D., jr -----	June 28, 1887
365,159	Wightman, M. J. and Lemp, H. -	June 21, 1887			

## 176. ELECTRIC LIGHTING.—78. CUT-OUTS—THERMAL.

348,048	Perkins, C. G -----	Aug. 24, 1886	354,466	Eschwei, C -----	Dec. 14, 1886
348,371	Andrews, W. S -----	Aug. 31, 1886	354,847	Walter, W. C -----	Dec. 21, 1886
348,646	Weston, E -----	Sept. 7, 1886	356,199	Holzer, W -----	Jan. 18, 1887
350,648	Whitney, E. R -----	Oct. 12, 1886	360,570	Farnham, I. H -----	Apr. 5, 1887
352,342	Mingle, G. W. and Brown, W. T	Nov. 9, 1886	361,713	Perkins, C. G -----	Apr. 26, 1887
352,621	Lemp, H. and Wightman, M. J. -	Nov. 16, 1886	364,721	McEvoy, E -----	June 14, 1887
352,622	Lemp, H. and Wightman, M. J. -	Nov. 16, 1886			

## 176. ELECTRIC LIGHTING.—17. LIGHTS—ARC.

345,937	Waterhouse, A. G -----	July 20, 1886	349,999	Jeffery, G -----	Sept. 28, 1886
346,217	Noble, C. B -----	July 27, 1886	350,956	Thomson, E -----	Oct. 19, 1886
346,430	Cutten, E. B -----	July 27, 1886	350,975	Cutten, E. B -----	Oct. 19, 1886
346,561	Pyle, G. C -----	Aug. 3, 1886	351,601	Hill, W. S -----	Oct. 26, 1886
347,218	Williamson, D -----	Aug. 10, 1886	351,973	Gifford, A. T -----	Nov. 2, 1886
348,542	Bronson, L. G -----	Sept. 7, 1886	353,305	Heineberg, H. and Lorenz, R. O	Nov. 30, 1886
348,799	Thone, F -----	Sept. 7, 1886	354,639	Jenney, C. D -----	Dec. 21, 1886
348,927	Pfannkuche, G -----	Sept. 7, 1886	355,129	Brady, J -----	Dec. 28, 1886
348,971	Heymann, E. and F. W -----	Sept. 14, 1886	356,788	Pyle, H. L -----	Feb. 1, 1887
348,972	Heymann, E. and F. W -----	Sept. 14, 1886	356,903	Thomson, E -----	Feb. 1, 1887
348,973	Heymann, E. and F. W -----	Sept. 14, 1886	357,774	Klän, V. and Spurny, F -----	Feb. 15, 1887
348,977	Keilholtz, P. O -----	Sept. 14, 1886	365,553	Thomson, E -----	June 28, 1887
348,978	Keilholtz, P. O -----	Sept. 14, 1886			

## 176. ELECTRIC LIGHTING.—103. LIGHTS—ARC, GRAVITY FEED, FRICTIONAL.

353,643	Pyle, G. C -----	Nov. 30, 1886	356,211	Scribner, C. E -----	Jan. 18, 1887
355,172	Jones, R. F -----	Dec. 28, 1886	359,221	McDill, H. C. and Gaston, J. E. -	Mar. 8, 1887

## 176. ELECTRIC LIGHTING.—104. LIGHTS—ARC, GRAVITY FEED, GEAR.

354,530	Boissier, H. R -----	Dec. 21, 1886	360,377	Crowdus, W. A. and Sutton, H. M.	Mar. 29, 1887
358,145	Crowdus, W. A. and Sutton, H. M.	Feb. 22, 1887	360,662	Cooke, C. F -----	Apr. 5, 1887
360,151	Hanson, L -----	Mar. 29, 1887	361,663	Wiese, G. A -----	Apr. 19, 1887
360,254	Tregoning, J -----	Mar. 29, 1887	362,289	Lakin, J. A -----	May 3, 1887

## 176. ELECTRIC LIGHTING.—105. LIGHTS—ARC, POSITIVE FEED.

350,140	Lane, G. M -----	Oct. 5, 1886	362,312	Pieper, H., fils -----	May 3, 1887
356,282	Harding, A -----	Jan. 18, 1887	362,852	Noble, C. M -----	May 10, 1887
356,786	Pyle, H. L -----	Feb. 1, 1887	363,611	Denison, J. F -----	May 24, 1887

## 176. ELECTRIC LIGHTING.—102. LIGHTS—FILAMENTS AND CARBONS.

345,539	Pfannkuche, A -----	July 13, 1886	354,310	Edison, T. A -----	Dec. 14, 1886
345,860	Reinmann, A. L -----	July 20, 1886	356,020	Voelker, W. L -----	Jan. 11, 1887
346,345	Ball, C. M -----	July 27, 1886	356,879	Lister, J. T -----	Feb. 1, 1887
347,164	De Lodyguine, A -----	Aug. 10, 1886	363,909	Pauchonier, C -----	May 31, 1887
347,247	Lister, J. T -----	Aug. 10, 1886	364,031	Maxwell, W -----	May 31, 1887
349,572	Dick, R -----	Sept. 21, 1886	365,509	Edison, T. A -----	June 28, 1887
353,598	Shaw, E -----	Nov. 30, 1886			

## 176. ELECTRIC LIGHTING.—18. LIGHTS—INCANDESCENT.

No.	NAME.	DATE.	No.	NAME.	DATE.
348,049	Perkins, C. G. -----	Aug. 24, 1886	356,795	Slattery, M. M. M. -----	Feb. 1, 1887
348,875	Wightman, M. J. and Lemp, H. -----	Sept. 7, 1886	357,385	Hochhausen, W. -----	Feb. 8, 1887
351,855	Edison, T. A. -----	Nov. 2, 1886	358,492	Slattery, M. M. M. -----	Mar. 1, 1887
351,856	Edison, T. A. -----	Nov. 2, 1886	358,599	Edison, T. A. -----	Mar. 1, 1887
351,869	Kookogey, W. P. -----	Nov. 2, 1886	358,600	Edison, T. A. -----	Mar. 1, 1887
352,625	Lyman, D. and Wheeler, M. -----	Nov. 16, 1886	359,328	Seel, C. -----	Mar. 15, 1887
353,158	Reinmann, A. L. -----	Nov. 23, 1886	361,455	Settle, M. -----	Apr. 19, 1887
353,333	Van Depoele, C. J. -----	Nov. 30, 1886	362,128	Van Choate, S. F. -----	May 3, 1887
353,783	Edison, T. A. -----	Dec. 7, 1886	363,500	Anderson, C. G. -----	May 24, 1887
354,788	Hickley, A. S. -----	Dec. 21, 1886	365,384	Jenkins, P. O. -----	June 28, 1887
355,714	Reinmann, A. L. -----	Jan. 11, 1887	365,495	Thompson, E. P. -----	June 28, 1887
356,019	Voelker, W. L. -----	Jan. 11, 1887	365,499	Anderson, C. G. -----	June 28, 1887

## 176. ELECTRIC LIGHTING.—18. LIGHTS—SOCKETS AND KEYS.

345,008	Van Gestel, J. T. -----	July 6, 1886	352,006	Schaefer, F. -----	Nov. 2, 1886
345,335	Thomson, E. -----	July 13, 1886	352,007	Schaefer, F. -----	Nov. 2, 1886
345,542	Reinmann, A. L. -----	July 13, 1886	360,244	Perkins, C. G. -----	Mar. 29, 1887
345,880	Brown, A. G. -----	July 20, 1886	363,559	Stanley, W., jr. -----	May 24, 1887
346,020	Brown, A. G. -----	July 20, 1886	363,568	Wightman, M. J. and Lemp, H. -----	May 24, 1887
347,767	Brown, H. P. -----	Aug. 24, 1886	365,351	Smith, J. -----	June 21, 1887
348,647	Weston, E. -----	Sept. 7, 1886			

## 176. ELECTRIC LIGHTING.—19. LIGHTS—SYSTEMS AND APPLIANCES.

345,561	Wightman, M. J. -----	July 13, 1886	354,782	Gordon, J. E. H. -----	Dec. 21, 1886
346,388	Stern, W. A. -----	July 27, 1886	355,400	Keeler, T. B. -----	Jan. 4, 1887
346,924	Knell, J. W. -----	Aug. 10, 1886	355,443	Edwards, H. F. -----	Jan. 4, 1887
347,025	Brush, C. F. -----	Aug. 10, 1886	355,446	Greenfield, E. T. -----	Jan. 4, 1887
347,528	Speer, A. -----	Aug. 17, 1886	356,270	Bredow, F. -----	Jan. 18, 1887
347,830	Rehehan, J. J. -----	Aug. 24, 1886	356,580	Fairbanks, H. H. and Coughlin, W. H. -----	Jan. 25, 1887
347,952	Murray, P., jr. -----	Aug. 24, 1886			
348,125	Howell, J. W. -----	Aug. 24, 1886	356,614	Bunnell, J. A. -----	Jan. 25, 1887
348,155	Dyer, R. N. -----	Aug. 24, 1886	356,629	Ezell, J. S. -----	Jan. 25, 1887
348,407	Moore, J. N. B. -----	Aug. 31, 1886	356,787	Pyle, H. L. -----	Feb. 1, 1887
348,603	Wessels, E. J. -----	Sept. 7, 1886	358,309	Warde, G. H. -----	Feb. 22, 1887
348,649	Weston, E. -----	Sept. 7, 1886	359,243	Davis, G. W. -----	Mar. 15, 1887
348,708	Willets, J. P. and Crolus, E. R. -----	Sept. 7, 1886	359,691	Reed, H. T. -----	Mar. 22, 1887
348,845	Haskins, C. C. -----	Sept. 7, 1886	359,713	Cheney, F. A. -----	Mar. 22, 1887
349,516	Perkins, C. G. -----	Sept. 21, 1886	359,739	Powers, J. A. -----	Mar. 22, 1887
349,613	Stanley, W., jr. -----	Sept. 21, 1886	359,916	Brady, T. H. -----	Mar. 22, 1887
349,614	Stanley, W., jr. -----	Sept. 21, 1886	360,002	Downing, W. W. and Upham, A. B. -----	Mar. 29, 1887
350,046	Doubleday, H. M. and Lyman, J. -----	Sept. 28, 1886			
350,355	Forsyth, C. S. -----	Oct. 5, 1886	360,040	Nichols, G. P. and Coombs, M., jr. -----	Mar. 29, 1887
350,958	Thomson, E. -----	Oct. 19, 1886	360,538	Powers, J. A. -----	Apr. 5, 1887
351,369	Ferguson, A. C. -----	Oct. 26, 1886	361,220	Haish, J. -----	Apr. 12, 1887
353,349	Buell, C. E. -----	Nov. 30, 1886	361,495	Diall, M. N. -----	Apr. 19, 1887
354,233	Rice, E. W., jr. -----	Dec. 14, 1886	361,782	Robb, J. T. -----	Apr. 26, 1887
354,258	Slattery, M. M. M. -----	Dec. 14, 1886	362,399	Schlotterbeck, A. G. -----	May 3, 1887
354,291	Williamson, D. -----	Dec. 14, 1886	363,332	Hammer, W. J. -----	May 17, 1887
354,758	Adams, J. S. -----	Dec. 21, 1886	363,702	Vance, S. B. H. -----	May 24, 1887
354,759	Adams, J. S. -----	Dec. 21, 1886	364,221	Curry, J. -----	June 7, 1887
354,760	Adams, J. S. -----	Dec. 21, 1886	365,414	Thomson, F. -----	June 28, 1887
354,781	Gordon, J. E. H. -----	Dec. 21, 1886	365,498	Abbott, G. L. -----	June 28, 1887

## 177. ELECTRIC SIGNALING.—1. ALARMS.

346,587	Glanville, W. L. -----	Aug. 3, 1886	356,605	Smith, M. M. and Jones, F. P. -----	Jan. 25, 1887
348,227	Mayhew, T. -----	Aug. 31, 1886	356,756	Farnham, W. H. and Askew, C. B. -----	Feb. 1, 1887
350,388	Perry, N. W. -----	Oct. 5, 1886	356,771	Leber, L. H. and Currens, M. C. -----	Feb. 1, 1887
350,450	Tucker, C. A. -----	Oct. 5, 1886	357,280	Harvey, W. B. -----	Feb. 8, 1887
351,746	Derrick, F. E. and Brott, S. C. -----	Nov. 2, 1886	358,161	McVay, W. -----	Feb. 22, 1887
352,203	Reichling, R. -----	Nov. 9, 1886	358,655	Frik, L. -----	Mar. 1, 1887
352,407	Glasgow, F. -----	Nov. 9, 1886	358,949	Stern, W. A. -----	Mar. 8, 1887
354,508	Frleigh, S. -----	Dec. 14, 1886	359,581	Toulmin, M. -----	Mar. 15, 1887
355,384	Chinnock, C. E. -----	Jan. 4, 1887	360,980	Whittier, T. P. -----	Apr. 12, 1887
355,793	Siebel, J. E. -----	Jan. 11, 1887	361,968	Olsen, J. L. W. -----	Apr. 26, 1887
355,815	Ghegan, J. J. -----	Jan. 11, 1887	364,940	Kassler, W. J. -----	June 14, 1887
356,445	Clark, J. H. -----	Jan. 25, 1887	365,493	Stecher, M. -----	June 28, 1887

## 177. ELECTRIC SIGNALING.—2. ALARMS—BURGLAR.

No.	NAME.	DATE.	No.	NAME.	DATE.
350,823	Fleckinger, J -----	Oct. 12, 1886	357,416	Schleicher, G -----	Feb. 8, 1887
351,408	Stern, P. K -----	Oct. 26, 1886	357,815	Carr, E. E -----	Feb. 15, 1887
351,772	Hoffman, J. W -----	Nov. 2, 1886	362,010	Jewill, G. J -----	Apr. 26, 1887
352,861	Dowden, C. H -----	Nov. 16, 1886	362,739	Ghegan, J. J -----	May 10, 1887
353,269	Parker, T. H. and Geary, J ---	Nov. 23, 1886	363,290	Freeman, A. H -----	May 17, 1887
354,858	Geary, J -----	Dec. 21, 1886	364,764	Lehy, G. B -----	June 14, 1887
357,190	Farnham, W. H. and Askew, C. B. -----	Feb. 8, 1887			

## 177. ELECTRIC SIGNALING.—3. ANNUNCIATORS.

346,609	Ronsseau, D -----	Aug. 3, 1886	355,791	Seiler, P -----	Jan. 11, 1887
346,876	Ullman, M -----	Aug. 3, 1886	356,850	Peachey, J. D -----	Feb. 1, 1887
348,045	Painter, G. E -----	Aug. 24, 1886	357,052	Watkins, F. C -----	Feb. 1, 1887
349,579	Geary, J -----	Sept. 21, 1886	358,250	Barrett, J. A -----	Feb. 22, 1887
349,580	Geary, J -----	Sept. 21, 1886	358,896	Smith, A. B -----	Mar. 8, 1887
350,449	Tucker, C. A -----	Oct. 5, 1886	359,051	Blodgett, A. D -----	Mar. 8, 1887
350,626	Hess, A. T. and Stoltenberg, H. A. -----	Oct. 12, 1886	359,984	Swain, C. R -----	Mar. 22, 1887
351,099	Dowden, C. H -----	Oct. 19, 1886	360,266	Barrett, J. A -----	Mar. 29, 1887
351,599	Henzel, C -----	Oct. 26, 1886	360,447	Kunkle, J. C -----	Apr. 5, 1887
354,209	Painter, G. E -----	Dec. 14, 1886	360,448	Kunkle, J. C -----	Apr. 5, 1887
354,505	Cull, W. J. and Scattergood, C. F. -----	Dec. 14, 1886	361,511	Harford, A. B -----	Apr. 19, 1887
			364,444	Seiler, P -----	June 7, 1887

## 177. ELECTRIC SIGNALING.—7 BELLS.

344,940	Carhart, E -----	July 6, 1886	358,910	Wildt, E. A -----	Mar. 8, 1887
346,532	Crockett, C. H. and Allen, C. C. -----	Aug. 3, 1886	359,309	Wood, F. B -----	Mar. 15, 1887
347,634	Nicholson, H. C -----	Aug. 17, 1886	360,025	Lambdin, C -----	Mar. 29, 1887
352,472	Lüngen, A -----	Nov. 9, 1886	360,660	Coleman, E. G -----	Apr. 5, 1887
353,273	Tucker, C. A. and Markland, W. H. -----	Nov. 23, 1886	362,005	Hazazer, E. W -----	Apr. 26, 1887
353,274	Tucker, C. A. and Huebel, O. H. -----	Nov. 23, 1886	362,216	Ilyne-Berline, S -----	May 3, 1887

## 177. ELECTRIC SIGNALING.—11. CLOCKS.

345,292	Fenner, R. E -----	July 13, 1886	351,239	Abell, J. J. and Gifford, C. B. --	Oct. 19, 1886
346,094	Dickinson, S. C -----	July 27, 1886	352,320	Hedge, J. F., jr -----	Nov. 9, 1886
346,862	Ramel, A. and Dean, W. W. ---	Aug. 3, 1886	353,840	Bailey, J. S -----	Dec. 7, 1886
346,863	Ramel, A. and Dean, W. W. ---	Aug. 3, 1886	354,525	Himmer, V -----	Dec. 14, 1886
346,970	Whiting, H -----	Aug. 10, 1886	355,434	Broch, J. and Luebke, A. E. G. --	Jan. 4, 1887
347,572	Clarke, C. L -----	Aug. 17, 1886	355,820	Himmer, V -----	Jan. 11, 1887
349,493	Gerry, J. H -----	Sept. 21, 1886	356,069	Himmer, V -----	Jan. 11, 1887
349,494	Gerry, J. H. and Hunter, M. E. -----	Sept. 21, 1886	357,310	Eter, J. R -----	Feb. 8, 1887
349,650	Hunter, M. E. and Gerry, J. H. -----	Sept. 21, 1886	359,799	Mayrhofer, C. A -----	Mar. 22, 1887
349,879	Garcia, D. T -----	Sept. 28, 1886	360,078	Abell, J. J. and Gifford, C. B. --	Mar. 29, 1887
350,177	Weisgerber, W. F. and Himmer, I. C. -----	Oct. 5, 1886	360,092	Harvey, W. B -----	Mar. 29, 1887
350,430	Hussey, C. A -----	Oct. 5, 1886	360,862	Delany, P. B -----	Apr. 12, 1887
350,431	Hussey, C. A -----	Oct. 5, 1886	360,903	Parcelle, A. L -----	Apr. 12, 1887
350,432	Hussey, C. A -----	Oct. 5, 1886	362,902	Pond, C. H -----	May 10, 1887
350,433	Hussey, C. A -----	Oct. 5, 1886	363,215	Dickinson, S. C -----	May 17, 1887
350,434	Hussey, C. A -----	Oct. 5, 1886	363,440	Warner, C. D -----	May 24, 1887
350,435	Hussey, C. A -----	Oct. 5, 1886	363,498	Zeiner, J -----	May 24, 1887
351,222	Thackara, S -----	Oct. 19, 1886	364,429	Mejer, G. E -----	June 7, 1887
			365,023	Ramel, A. and Dean, W. W. ---	June 14, 1887

## 177. ELECTRIC SIGNALING.—26. INDICATORS.

347,399	Vance, T. C. H -----	Aug. 17, 1886	355,382	Chapman, W. H. and Donahne, B. C. -----	Jan. 4, 1887
347,571	Clarke, C. L -----	Aug. 17, 1886	356,792	Ricketson, J. C -----	Feb. 1, 1887
348,949	Böhling, J -----	Sept. 14, 1886	356,805	Stonitsch, J. and Sweet, W. F. --	Feb. 1, 1887
349,605	Reams, A. J -----	Sept. 21, 1886	360,381	Fitch, F. K -----	Mar. 29, 1887
350,279	Wickersham, C. H -----	Oct. 2, 1886	361,146	Doremus, W. D -----	Apr. 12, 1887
352,086	Ennis, H. J -----	Nov. 2, 1886	361,275	Enyart, E. S -----	Apr. 19, 1887
352,647	Ghegan, J. J -----	Nov. 16, 1886			



## 177. ELECTRIC SIGNALING.—38. RAILWAY-SIGNALS.

No.	NAME.	DATE.	No.	NAME.	DATE.
345,641	Long, M. W.-----	July 13, 1886	354,992	Street, S. T.-----	Dec. 28, 1886
345,642	Long, M. W.-----	July 13, 1886	357,109	Westinghouse, G., jr-----	Feb. 1, 1887
346,484	Liemke, H. H.-----	Aug. 3, 1886	357,296	Westinghouse, G., jr-----	Feb. 8, 1887
346,485	Liemke, H. H.-----	Aug. 3, 1886	357,865	Short, S. H.-----	Feb. 15, 1887
347,628	McQueen, F. J.-----	Aug. 17, 1886	357,881	Wells, E. D.-----	Feb. 15, 1887
347,752	Vogel, W.-----	Aug. 17, 1886	357,922	Hand, W., Wright, M. C. and Pocock, F. A.-----	Feb. 15, 1887
347,753	Vogel, W.-----	Aug. 17, 1886			
349,040	Hadden, W.-----	Sept. 14, 1886	358,519	Westinghouse, G., jr-----	Mar. 1, 1887
349,927	Daves, W.-----	Sept. 28, 1886	359,040	Tisdale, C. D.-----	Mar. 8, 1887
350,790	Wicks, P. J.-----	Oct. 12, 1886	359,067	Fearon, C.-----	Mar. 8, 1887
351,319	Gibson, J. H.-----	Oct. 19, 1886	359,371	Van Nort, S. P.-----	Mar. 15, 1887
351,384	Le Grande, W. W.-----	Oct. 26, 1886	359,512	Long, M. W.-----	Mar. 15, 1887
351,759	Graver, E. S.-----	Nov. 2, 1886	360,077	Wright, G. H.-----	Mar. 29, 1887
352,412	James, De W. C.-----	Nov. 9, 1886	360,175	Scott, J. McM.-----	Mar. 29, 1887
352,571	Pridham, C. W.-----	Nov. 16, 1886	360,638	Westinghouse, G., jr-----	Apr. 5, 1887
352,590	Toulmin, S.-----	Nov. 16, 1886	362,409	Wicks, P. J.-----	May 3, 1887
352,700	Mahanay, S. C. and Campbell, B. L.-----	Nov. 16, 1886	364,009	Gedge, B. H.-----	May 31, 1887
			364,204	Armstrong, J. H.-----	June 7, 1887
352,903	Le Grande, W. W.-----	Nov. 16, 1886	365,345	Long, M. W.-----	June 21, 1887
353,393	Williams, T. D., Eitemiller, G. M. and Lucock, J. S.-----	Nov. 30, 1886			

## 177. ELECTRIC SIGNALING.—39. RECORDERS.

347,038	Hey, G. W.-----	Aug. 10, 1886	358,645	Bundy, W. L.-----	Mar. 1, 1887
348,437	Weiss, C. W.-----	Aug. 31, 1886	359,307	Wittenberg, C.-----	Mar. 15, 1887
349,710	Guest, J. H.-----	Sept. 28, 1886	359,308	Wittenberg, C.-----	Mar. 15, 1887
349,767	Torrey, A. and Casey, D. J.-----	Sept. 28, 1886	359,338	Wheeler, A. D.-----	Mar. 15, 1887
349,780	Bernsee, C. D.-----	Sept. 28, 1886	359,346	Capers, J. S.-----	Mar. 15, 1887
351,681	Wilson, J. C.-----	Oct. 26, 1886	359,999	Colby, E. J.-----	Mar. 29, 1887
355,742	Wittenberg, C.-----	Jan. 11, 1887	360,692	Herzberg, A. and Almqvist, A. W.-----	Apr. 5, 1887
355,743	Wittenberg, C.-----	Jan. 11, 1887			
355,744	Wittenberg, C.-----	Jan. 11, 1887	361,678	Doehring, C. F. W. and Hoff- man, C. G.-----	Apr. 26, 1887
355,745	Wittenberg, C.-----	Jan. 11, 1887			
355,746	Wittenberg, C.-----	Jan. 11, 1887	363,039	Abbe, R. W. F.-----	May 17, 1887
356,070	Himmer, V.-----	Jan. 11, 1887	365,353	Smith, W. R. and Washburn, A. L.-----	June 21, 1887
358,032	Goldsmith, J. S.-----	Feb. 22, 1887			

## 177. ELECTRIC SIGNALING.—68. THERMOSTATS.

346,938	Muenchinger, G. A.-----	Aug. 10, 1886	356,024	Bain, F.-----	Jan. 11, 1887
347,851	White, J. E.-----	Aug. 24, 1886	356,360	Gee, W.-----	Jan. 18, 1887
347,866	Butz, A. M.-----	Aug. 24, 1886	10,802	Johnson, W. S.----- (Reis.)	Jan. 25, 1887
348,473	Prescott, T. H.-----	Aug. 31, 1886	357,838	Lee, C. E.-----	Feb. 15, 1887
10,768	Johnson, W. S.----- (Reis.)	Sept. 28, 1886	358,350	Haight, H. J.-----	Feb. 22, 1887
350,381	Meisenheimer, A.-----	Oct. 5, 1886	358,511	Upton, E. W.-----	Mar. 1, 1887
350,548	Morley, E. A.-----	Oct. 12, 1886	358,775	Graves, F. B.-----	Mar. 1, 1887
351,134	Stiegelmaier, W. H.-----	Oct. 19, 1886	358,854	Haight, H. J.-----	Mar. 8, 1887
351,702	Johnson, W. S.-----	Oct. 26, 1886	359,210	Haight, H. J.-----	Mar. 8, 1887
351,719	Stone, L. B.-----	Oct. 26, 1886	359,392	Johnson, C. W.-----	Mar. 15, 1887
352,442	Bulen, G. F.-----	Nov. 9, 1886	360,223	Johnson, E. H.-----	Mar. 29, 1887
352,874	Johnson, W. S.-----	Nov. 16, 1886	360,823	Singer, W. F.-----	Apr. 5, 1887
353,637	Likly, H., Carpenter, C. A. and Graves, F. B.-----	Nov. 30, 1886	361,270	Dickerson, E. N., jr-----	Apr. 19, 1887
			362,212	Guion, R. L.-----	May 3, 1887
354,131	Guion, R. L.-----	Dec. 14, 1886	362,213	Guion, R. L.-----	May 3, 1887
10,791	Kells, C. E., jr----- (Reis.)	Dec. 21, 1886	362,957	Haight, H. J.-----	May 17, 1887
354,932	Price, F. A.-----	Dec. 28, 1886	363,644	Jacobs, H. E.-----	May 24, 1887
354,965	Black, C. S. and Pfister, P. C.-----	Dec. 28, 1886	363,645	Jacobs, H. E.-----	May 24, 1887
355,164	Guion, R. L.-----	Dec. 28, 1886	364,518	Johnson, W. S.-----	June 7, 1887
355,892	Sternberg, G. M.-----	Jan. 11, 1887	365,089	Morrison, A. E.-----	June 21, 1887
355,893	Sternberg, G. M.-----	Jan. 11, 1887	365,438	Jacobs, H. E.-----	June 28, 1887
355,894	Sternberg, G. M.-----	Jan. 11, 1887	365,600	Jacobs, H. E.-----	June 28, 1887
355,895	Sternberg, G. M. and Lehmann, A. A.-----	Jan. 11, 1887			

## 178. TELEGRAPHY.—46. AUTOMATIC.

350,320	Robertson, J. H.-----	Oct. 5, 1886	353,592	Robertson, J. H.-----	Nov. 30, 1886
353,541	Cowper, E. A.-----	Nov. 30, 1886	353,593	Robertson, J. H.-----	Nov. 30, 1886

## 178. TELEGRAPHY.—46. AUTOMATIC.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
353,594	Robertson, J. H -----	Nov. 30, 1886	364,271	Maiche, L. -----	June 7, 1887
357,038	Robertson, J. H -----	Feb. 1, 1887	364,471	Bock, L., jr -----	June 7, 1887
357,039	Robertson, J. H -----	Feb. 1, 1887			

## 178. TELEGRAPHY.—10. CIRCUIT CLOSERS.

344,948	De Solomé, G. F -----	July 6, 1886	355,858	Brainard, F. R -----	Jan. 11, 1887
349,708	Gazaille, H. and Low, H. F ---	Sept. 28, 1886	358,109	Davis, A. G -----	Feb. 22, 1887
349,926	Daves, W -----	Sept. 28, 1886	358,360	Krepps, V. A -----	Feb. 22, 1887
350,411	Buck, W -----	Oct. 5, 1886	358,614	Johnson, J. E -----	Mar. 1, 1887
351,488	Bowyer, J. M -----	Oct. 26, 1886	359,260	Keffler, F. and McDowell, J. A.	Mar. 15, 1887
352,043	Cox, H. B -----	Nov. 2, 1886	362,192	Thaxter, G. E -----	May 3, 1887
354,919	Manny, W. B -----	Dec. 28, 1886	363,574	Ball, C. M. and McTighe, T. J.	May 24, 1887

## 178. TELEGRAPHY.—45. CIRCUITS AND SYSTEMS.

349,214	Farmer, M. G -----	Sept. 14, 1886	361,498	Farmer, M. G -----	Apr. 19, 1887
351,367	Langdon-Davies, C -----	Oct. 26, 1886	361,734	Van Rysselberghe, F -----	Apr. 26, 1887
354,996	Absterdam, J -----	Dec. 28, 1886	361,797	Weaver, S -----	Apr. 26, 1887
358,890	Selden, C -----	Mar. 8, 1887	363,188	Van Rysselberghe, F -----	May 17, 1887
358,939	Palmer, N. F -----	Mar. 8, 1887	363,969	Selden, C -----	May 31, 1887
360,492	Van Rysselberghe, F -----	Apr. 5, 1887	364,356	Leggo, W. A -----	June 7, 1887

## 178. TELEGRAPHY.—47. DIAL.

363,158	McLaughlin, J. F -----				May 17, 1887
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## 178. TELEGRAPHY.—48. DUPLEX.

361,356	Gardanier, G. W -----	Apr. 19, 1887	361,364	Larish, J. W. and Maver, W., jr.	Apr. 19, 1887
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## 178. TELEGRAPHY.—49. DYNAMO.

353,128	Field, S. D -----				Nov. 23, 1886
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## 178. TELEGRAPHY.—50. FIRE.

346,314	Reeder, E. A -----	July 27, 1886	357,885	Zoeller, T. J. -----	Feb. 15, 1887
346,355	Chase, J. W -----	July 27, 1886	357,960	Horne, W. L -----	Feb. 15, 1887
346,847	Flanders, B. S -----	Aug. 3, 1886	358,694	Pearce, F. and Jones, J -----	Mar. 1, 1887
347,318	Brewer, J. P. and Smith, W. C	Aug. 17, 1886	358,864	Lyon, F. G -----	Mar. 8, 1887
347,319	Brown, G. W -----	Aug. 17, 1886	359,686	Noyes, B. J -----	Mar. 22, 1887
348,707	Wheeler, A. D -----	Sept. 7, 1886	359,687	Noyes, B. J -----	Mar. 22, 1887
350,126	Frost, J. W -----	Oct. 5, 1886	359,688	Noyes, B. J -----	Mar. 22, 1887
350,426	Frost, J. W. and Lake, S. D ---	Oct. 5, 1886	359,689	Noyes, B. J -----	Mar. 22, 1887
350,451	Tucker, C. A -----	Oct. 5, 1886	359,823	Taussig, S -----	Mar. 22, 1887
350,634	McCullough, L. H -----	Oct. 12, 1886	359,824	Taussig, S -----	Mar. 22, 1887
350,804	Chase, S. A -----	Oct. 12, 1886	360,252	Smith, W. C -----	Mar. 29, 1887
351,075	Sloenum, E. L -----	Oct. 19, 1886	360,824	Singer, W. F -----	Apr. 5, 1887
352,645	Gaynor, T. F -----	Nov. 16, 1886	360,968	Martin, M -----	Apr. 12, 1887
353,766	Thompson, A. and Ritchie, R. O	Dec. 7, 1886	361,901	Smith, J. E -----	Apr. 26, 1887
354,761	Anderson, A -----	Dec. 21, 1886	362,477	Coughlin, J. J -----	May 3, 1887
354,856	Frost, J. W -----	Dec. 21, 1886	363,365	Cole, F. W -----	June 28, 1887
355,548	Meyer, A -----	Jan. 4, 1887	365,726	Bulen, G. F -----	June 28, 1887

## 178. TELEGRAPHY.—101. FIRE—ALARMS AND EXTINGUISHERS.

347,216	Westcott, C. H. and F -----	Aug. 10, 1886	358,393	Guest, J. H -----	Feb. 22, 1887
356,875	Harkness, W -----	Feb. 1, 1887	364,299	Rogers, C. D -----	June 7, 1887
358,336	Copeland, E. T -----	Feb. 22, 1887	365,639	Shaffer, C. H -----	June 28, 1887

## 178. TELEGRAPHY.—29. KEYS.

No.	NAME.	DATE.	No.	NAME.	DATE.
346,930	Macready, R. A -----	Aug. 10, 1886	351,834	Jenkins, M. R -----	Nov. 2, 1886
351,485	Biggs, J. M -----	Oct. 26, 1886	354,814	Steiner, J -----	Dec. 21, 1886

## 178. TELEGRAPHY.—30. LIGHTNING-ARRESTERS.

363,567	Wightman, M. J. and Lemp, H -----	May 24, 1887
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## 178. TELEGRAPHY.—51. MULTIPLEX.

345,721	Parcelle, A. L -----	July 20, 1886	360,987	Beale, A. M. A -----	Apr. 12, 1887
355,860	Brown, R. G -----	Jan. 11, 1887	360,988	Beale, A. M. A -----	Apr. 12, 1887
360,986	Beale, A. M. A -----	Apr. 12, 1887			

## 178. TELEGRAPHY.—52. PERFORATING.

352,600	Wright, C. G -----	Nov. 16, 1886
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## 178. TELEGRAPHY.—54. PRINTING.

345,245	Mahnken, H -----	July 6, 1886	355,662	Pike, D. E -----	Jan. 4, 1887
350,469	Scott, D. B -----	Oct. 5, 1886	358,379	Brown, R. G -----	Feb. 22, 1887
350,615	Buckingham, C. L -----	Oct. 12, 1886	360,994	Burke, C. G -----	Apr. 12, 1887
350,616	Buckingham, C. L -----	Oct. 12, 1886	360,995	Burke, C. G -----	Apr. 12, 1887
350,617	Buckingham, C. L -----	Oct. 12, 1886	364,343	Hall, G. W -----	June 7, 1887
350,983	Linville, J. H -----	Oct. 19, 1886	364,525	Lanston, T -----	June 7, 1887
350,984	Linville, J. H -----	Oct. 19, 1886	364,893	Brown, R. G -----	June 14, 1887
352,059	Kaler, W. A -----	Nov. 2, 1886	364,894	Brown, R. G -----	June 14, 1887
352,143	Munson, J. E -----	Nov. 9, 1886	365,059	Essick, S. V -----	June 21, 1887
352,435	Wilson, J. C -----	Nov. 9, 1886	365,705	Scott, G. B -----	June 28, 1887
354,001	Wirsching, A -----	Dec. 7, 1886			

## 178. TELEGRAPHY.—55. QUADRUPLIX.

349,945	Maver, W., jr -----	Sept. 28, 1886	352,865	Freir, S. P -----	Nov. 16, 1886
351,933	Moffatt, J. M. and Blakeney, E -----	Nov. 2, 1886	360,528	Jones, F. W -----	Apr. 5, 1887

## 178. TELEGRAPHY.—56. RAILWAY-CAR.

350,234	Edison, T. A. and Gilliland, E. T -----	Oct. 5, 1886	354,827	Burton, G. D -----	Dec. 21, 1886
350,235	Edison, T. A. and Gilliland, E. T -----	Oct. 5, 1886	355,055	Bickford, J. H -----	Dec. 28, 1886
351,524	Phelps, L. J -----	Oct. 26, 1886	355,468	Phelps, L. J -----	Jan. 4, 1887
351,525	Phelps, L. J -----	Oct. 26, 1886	355,469	Phelps, L. J -----	Jan. 4, 1887
353,789	Ives, E. B -----	Dec. 7, 1886	355,470	Phelps, L. J -----	Jan. 4, 1887
354,302	Carpenter, G. E. and Tucker, A. F. -----	Dec. 14, 1886	359,990	Barrett, J. A -----	Mar. 29, 1887
354,460	Burton, G. D -----	Dec. 14, 1886	361,730	Stewart, S. B -----	Apr. 26, 1887

## 178. TELEGRAPHY.—63. REED.

345,209	Brown, R. G -----	July 6, 1886	365,103	Selden, C -----	June 21, 1887
360,844	Barnard, W. T -----	Apr. 12, 1887			

## 178. TELEGRAPHY.—41. RELAYS AND SOUNDERS.

350,644	Stewart, G. W -----	Oct. 12, 1886	354,815	Steiner, J -----	Dec. 21, 1886
352,317	Haskins, C. D -----	Nov. 9, 1886	355,431	Arthur, W -----	Jan. 4, 1887
352,725	Westinghouse, G., jr -----	Nov. 16, 1886	357,789	Rutherford, R. C -----	Feb. 15, 1887
353,238	Conklin, J. I., jr -----	Nov. 30, 1886	360,308	Knudson, A. A -----	Mar. 29, 1887
354,139	House, H. A. and H. A., jr -----	Dec. 14, 1886	364,619	Woods, G. T -----	June 7, 1887



## 178. TELEGRAPHY.—69. TRANSMITTERS.

No.	NAME.	DATE.	No.	NAME.	DATE.
350,882	Herrmann, C.-----	Oct. 12, 1886	353,715	Shryock, J. W.-----	Dec. 7, 1886
352,549	Le Grande, W. W. and Burton, G. W.	Nov. 16, 1886	356,418	Nickum, G. S.-----	Jan. 18, 1887

## 179. TELEPHONY.—82. ANTI-INDUCTION DEVICES.

348,512	Carty, J. J.-----	Aug. 31, 1886	355,420	Stockwell, J. O.-----	Jan. 4, 1887
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## 179. TELEPHONY.—81. CONDUCTORS—ANTI-INDUCTIVE.

346,509	Spalding, H. C.-----	Aug. 3, 1886	350,715	Barrett, J. A.-----	Oct. 12, 1886
346,510	Spalding, H. C.-----	Aug. 3, 1886			

## 179. TELEPHONY.—57. TELEPHONES—CALLS.

347,097	Edison, T. A.-----	Aug. 10, 1886	352,948	Glover, L. S.-----	Nov. 23, 1886
349,839	Gannon, P.-----	Sept. 28, 1886	355,383	Chinmook, C. E.-----	Jan. 4, 1887
349,976	Bickford, J. H.-----	Sept. 28, 1886	361,020	Mosher, S. E.-----	Apr. 12, 1887
350,610	Willis, C. F.-----	Oct. 12, 1886	361,365	Larish, J. W.-----	Apr. 19, 1887
351,597	Heissler, N. C.-----	Oct. 26, 1886			

## 179. TELEPHONY.—58. TELEPHONES—DETAILS.

348,114	Edison, T. A.-----	Aug. 24, 1886	356,688	Johnson, E. H.-----	Jan. 25, 1887
350,203	Lister, J. T.-----	Oct. 5, 1886	359,492	Balloch, C.-----	Mar. 15, 1887
350,737	Hall, E. L.-----	Oct. 12, 1886	362,099	Maloney, J. A.-----	May 3, 1887
354,818	Voelker, W. L.-----	Dec. 21, 1886	362,100	Maloney, J. A.-----	May 3, 1887

## 179. TELEPHONY.—59. TELEPHONES—ELECTRIC.

344,938	Bergmann, S.-----	July 6, 1886	354,241	Rose, A. W.-----	Dec. 14, 1886
345,084	Spaulding, E. S.-----	July 6, 1886	354,541	Drawbaugh, D.-----	Dec. 21, 1886
345,085	Spaulding, E. S.-----	July 6, 1886	354,542	Drawbaugh, D.-----	Dec. 21, 1886
345,658	Young, J. P.-----	July 13, 1886	355,149	Dolbear, A. E.-----	Dec. 28, 1886
345,762	Brambel, G.-----	July 20, 1886	355,426	Watkins, F. C.-----	Jan. 4, 1887
346,846	Ehrlich, H.-----	Aug. 3, 1886	355,686	Egan, C. E.-----	Jan. 11, 1887
347,924	Dann, J. E. and Lapp, J.-----	Aug. 24, 1886	355,838	Pratt, H. P. and McPherson, L. O.	Jan. 11, 1887
348,430	Townsend, L.-----	Aug. 31, 1886			
348,501	Stanley, W., jr.-----	Aug. 31, 1886	355,952	Stut, J. C. H.-----	Jan. 11, 1887
350,215	Sargent, F. G.-----	Oct. 5, 1886	356,034	Freeman, J. P.-----	Jan. 11, 1887
350,299	Dolbear, A. E.-----	Oct. 5, 1886	356,300	Beale, A. M. A.-----	Jan. 18, 1887
350,772	Roberts, G. L.-----	Oct. 12, 1886	356,689	Johnson, E. H.-----	Jan. 25, 1887
351,250	Cole, W. R.-----	Oct. 19, 1886	357,054	Watkins, F. C.-----	Feb. 1, 1887
351,569	Berliner, E.-----	Oct. 26, 1886	357,134	Stockwell, J. O.-----	Feb. 1, 1887
352,119	Collins, W. H.-----	Nov. 9, 1886	357,359	Barney, W. C.-----	Feb. 8, 1887
352,176	Bonta, J. W.-----	Nov. 9, 1886	357,452	Blake, F.-----	Feb. 8, 1887
352,177	Bonta, J. W.-----	Nov. 9, 1886	358,812	House, W. D.-----	Mar. 1, 1887
352,178	Bonta, J. W.-----	Nov. 9, 1886	358,940	Palmer, N. F.-----	Mar. 8, 1887
352,179	Bonta, J. W.-----	Nov. 9, 1886	358,941	Palmer, N. F.-----	Mar. 8, 1887
352,806	Cole, W. R.-----	Nov. 16, 1886	359,188	Tabony, J. H.-----	Mar. 8, 1887
352,900	Wheless, M. and Darden, J. D.-----	Nov. 16, 1886	361,047	Burnley, W.-----	Apr. 12, 1887
353,337	Wallace, T. and En Holm, O. A.-----	Nov. 30, 1886	361,124	Bonta, J. W.-----	Apr. 12, 1887
353,536	Burnley, W.-----	Nov. 30, 1886	363,449	Carty, J. J.-----	May 24, 1887
353,694	McDonough, J. W.-----	Dec. 7, 1886	364,472	Bock, L., jr.-----	June 7, 1887
353,755	Palmer, N. F.-----	Dec. 7, 1886	364,475	Bonta, J. W.-----	June 7, 1887

## 179. TELEPHONY.—60. TELEPHONES—MAGNETIC.

344,983	Phelps, A. M.-----	July 6, 1886	348,134	Lugo, O.-----	Aug. 24, 1886
346,031	Emmner, J., jr.-----	July 20, 1886	348,429	Townsend, L.-----	Aug. 31, 1886
346,377	Lockwood, W. C.-----	July 27, 1886	349,312	Marshall, W.-----	Sept. 21, 1886
346,962	Turnbull, W. C.-----	Aug. 10, 1886	349,375	Fairbanks, L. S.-----	Sept. 21, 1886
347,374	Perrin, T. J.-----	Aug. 17, 1886	350,130	Hamlin, E. B.-----	Oct. 5, 1886
348,077	Watson, T. A.-----	Aug. 24, 1886	351,209	Seiler, P.-----	Oct. 19, 1886



## 179. TELEPHONY.—60. TELEPHONES—MAGNETIC.—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
351,258	Farmer, M. G -----	Oct. 19, 1886	355,687	Egan, C. E -----	Jan. 11, 1887
351,905	Eickemeyer, R -----	Nov. 2, 1886	355,734	Waite, H. E -----	Jan. 11, 1887
352,735	Cole, W. R -----	Nov. 16, 1886	356,197	Gilliland, E. T -----	Jan. 18, 1887
354,169	Morton, W. J -----	Dec. 14, 1886	357,360	Barney, W. C -----	Feb. 8, 1887
354,402	Eichmeyer, J. C -----	Dec. 14, 1886	360,068	Waite, H. E -----	Mar. 29, 1887
355,032	Schneekloth, H. A -----	Dec. 28, 1886	360,626	Tabony, J. H -----	Apr. 5, 1887
355,424	Watkins, F. C -----	Jan. 4, 1887	361,481	Bell, C. S -----	Apr. 19, 1887
355,685	Egan, C. E -----	Jan. 11, 1887			

## 179. TELEPHONY.—61. TELEPHONES—MECHANICAL.

346,594	Lord, G. W -----	Aug. 3, 1886	357,995	Howard, J. H -----	Feb. 15, 1887
347,325	Davis, A. W. S -----	Aug. 17, 1886	358,357	Jones, J. S -----	Feb. 22, 1887
348,328	Kenyon, B. L -----	Aug. 31, 1886	359,215	Lord, G. W -----	Mar. 8, 1887
348,896	Eastman, W. H -----	Sept. 7, 1886	359,216	Lord, G. W -----	Mar. 8, 1887
351,704	Knudson, A. A -----	Oct. 26, 1886	359,217	Lord, G. W -----	Mar. 8, 1887
352,577	Shaver, G. F -----	Nov. 16, 1886	359,218	Lord, G. W -----	Mar. 8, 1887
353,489	Gerst, M -----	Nov. 30, 1886	360,362	Radford, C. M -----	Mar. 29, 1887
353,683	Jones, J. S -----	Dec. 7, 1886	361,302	Lord, G. W -----	Apr. 19, 1887
353,684	Jones, J. S -----	Dec. 7, 1886	361,499	Garl, M -----	Apr. 19, 1887
355,363	Weinhaus, T. H -----	Jan. 4, 1887	363,249	Lauboff, J -----	May 17, 1887
356,594	Lord, G. W -----	Jan. 25, 1887	365,525	Lauhoff, J -----	June 28, 1887
357,967	Radford, C. M -----	Feb. 15, 1887			

## 179. TELEPHONY.—62. TELEPHONES—RADIOPHONES.

356,877	Hobenstein, C. J -----				Feb. 1, 1887
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## 179. TELEPHONY.—77. TELEPHONES—RELAYS AND REPEATERS.

351,257	Farmer, M. G -----				Oct. 19, 1886
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## 179. TELEPHONY.—100. TELEPHONES—SUPPORTS.

348,120	Gaskins, G. H -----	Aug. 24, 1886	357,337	Rosenblatt, S -----	Feb. 8, 1887
351,389	Mead, C. K -----	Oct. 26, 1886	362,115	Rosenblatt, S -----	May 3, 1887

## 179. TELEPHONY.—85. TELEPHONES—SWITCH-BOARDS.

346,183	Waters, E. G. and Sweeny, R. G -----	July 27, 1886	357,538	Scribner, C. E -----	Feb. 8, 1887
353,184	Wehrle, J. H -----	Nov. 23, 1886	357,821	Ford, W. S -----	Feb. 15, 1887
355,425	Watkins, F. C -----	Jan. 4, 1887			

## 179. TELEPHONY.—71. TELEPHONES—SWITCHES.

348,936	Turnbull, W. C -----	Sept. 7, 1886	357,682	McDonough, J. W. and Eldred, H. H -----	Feb. 15, 1887
352,474	Lüngen, A -----	Nov. 9, 1886	359,356	Hitchcock, C. A -----	Mar. 15, 1887

## 179. TELEPHONY.—64. TELEPHONES—SYSTEMS.

345,325	Scribner, C. E -----	July 13, 1886	349,042	Herz, C -----	Sept. 14, 1886
345,326	Scribner, C. E -----	July 13, 1886	349,043	Herz, C -----	Sept. 14, 1886
346,515	Sweeny, R. G -----	Aug. 3, 1886	349,539	Tabony, J. H -----	Sept. 21, 1886
346,708	Bell, C. A -----	Aug. 3, 1886	349,947	Mehren, J. F -----	Sept. 28, 1886
346,865	Rose, P. L. and Rein, G -----	Aug. 3, 1886	350,024	Townsend, L -----	Sept. 28, 1886
346,866	Rose, P. L. and Rein, G -----	Aug. 3, 1886	350,160	See, J. W -----	Oct. 5, 1886
348,139	Pope, E -----	Aug. 24, 1886	351,588	Farmer, M. G -----	Oct. 26, 1886
348,578	Perrin, T. J -----	Sept. 7, 1886	352,596	Wilson, G. W -----	Nov. 16, 1886
348,579	Perrin, T. J -----	Sept. 7, 1886	353,350	Carty, J. J -----	Nov. 30, 1886

179. TELEPHONY.—64. TELEPHONES—SYSTEMS—Continued.

No.	NAME.	DATE.	No.	NAME.	DATE.
353,940	Hayes, H. V -----	Dec. 7, 1886	357,053	Watkins, F. C -----	Feb. 1, 1887
354,469	Gould, C. C.-----	Dec. 14, 1886	357,372	Crowdus, W. A -----	Feb. 8, 1887
354,942	Shaver, G. F -----	Dec. 28, 1886	357,539	Seely, J. A -----	Feb. 8, 1887
355,189	McLaughlin, J. F-----	Dec. 28, 1886	357,540	Seely, J. A -----	Feb. 8, 1887
355,190	McLaughlin, J. F-----	Dec. 28, 1886	357,589	Fontaine, A. S-----	Feb. 15, 1887
355,226	Smith, D. J. and Sinclair, D---	Dec. 28, 1886	357,687	Patterson, C. A -----	Feb. 15, 1887
355,741	Wittenberg, C -----	Jan. 11, 1887	357,726	Mehren, J. F-----	Feb. 15, 1887
355,928	Gould, C. C. and Smith, W----	Jan. 11, 1887	358,317	Wiley, G. L-----	Feb. 22, 1887
355,929	Gould, C. C. and Smith, W----	Jan. 11, 1887	359,306	Wittenberg, C -----	Mar. 15, 1887
356,040	Hitchcock, C. A. and Burnley, W	Jan. 11, 1887	359,575	Mehren, J. F. and Carroll, W--	Mar. 15, 1887
356,425	Scribner, C. E -----	Jan. 18, 1887	359,747	Tabony, J. H-----	Mar. 22, 1887
356,426	Scribner, C. E -----	Jan. 18, 1887	362,217	Kellogg, M. G -----	May 3, 1887
356,427	Scribner, C. E -----	Jan. 18, 1887	362,652	O'Connell, J. J-----	May 10, 1887
356,859	Warner, E. P-----	Feb. 1, 1887	364,133	Richardson, J. D-----	May 31, 1887
357,051	Watkins, F. C -----	Feb. 1, 1887			

179. TELEPHONY.—99. TELEPHONES—SYSTEMS—AUTOMATIC.

349,975	Bickford, J. H-----	Sept. 28, 1886
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# APPENDIX No. VI.

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## PART II

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CONSISTING OF A

NUMERICAL AND CHRONOLOGICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1886, to June 30, 1887, inclusive, giving names of Inventors,  
numbers and dates of Patents, and the sub-class to which each belongs.

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# NUMERICAL INDEX

OF

# PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1886, TO JUNE 30, 1887.

No.	NAME.	CLASS.	DATE.
344,818	Drawbaugh, D.	Induction-coils	July 6, 1886
344,823	Fottrell, J.	Conductors	July 6, 1886
344,827	Grant, J.	Conductors, underground	July 6, 1886
344,843	Macdonald, R.	do	July 6, 1886
344,882	Trippe, S. L.	Batteries, secondary	July 6, 1886
344,938	Bergmann, S.	Telephones, electric	July 6, 1886
344,940	Carhart, E.	Bells	July 6, 1886
344,946	De Solomé, G. F.	Batteries, galvanic	July 6, 1886
344,947	De Solomé, G. F.	do	July 6, 1886
344,948	De Solomé, G. F.	Circuit-closers	July 6, 1886
344,957	Farbaky, S. and Schenek, S.	Batteries, secondary	July 6, 1886
344,962	Harris, R. L.	Locomotion	July 6, 1886
344,983	Phelps, A. M.	Telephones, magnetic	July 6, 1886
345,008	Van Gestel, J. T.	Lights, sockets and keys	July 6, 1886
345,025	Blodgett, F. M.	Medical and surgical, body-wear	July 6, 1886
345,084	Spaulding, E. S.	Telephones, electric	July 6, 1886
345,085	Spaulding, E. S.	do	July 6, 1886
345,124	De Virloy, A. L., Commelin, E., and Bailhache, G.	Batteries, secondary	July 6, 1886
345,178	Rockwell, R. N.	Medical and surgical, body-wear	July 6, 1886
345,209	Brown, R. G.	Telegraphy, reed	July 6, 1886
345,212	Byllesby, H. M.	Systems of distribution	July 6, 1886
345,245	Mahnken, H.	Telegraphy, printing	July 6, 1886
345,292	Fenner, R. E.	Clocks	July 13, 1886
345,325	Scribner, C. E.	Telephones, systems	July 13, 1886
345,326	Scribner, C. E.	do	July 13, 1886
345,334	Thomson, E.	Motors	July 13, 1886
345,335	Thomson, E.	Lights, sockets and keys	July 13, 1886
345,336	Thomson, E.	Magneto-electric	July 13, 1886
345,333	Kessler, H. P. J.	Separators	July 13, 1886
345,452	Roth, C. W.	Applications, general	July 13, 1886
345,511	Khotinsky, A.	Batteries, secondary	July 13, 1886
345,539	Pfannkuche, A.	Lights, filaments and carbons	July 13, 1886
345,542	Reinmann, A. L.	Lights, sockets and keys	July 13, 1886
345,561	Wightman, M. J.	Lights, systems and appliances	July 13, 1886
345,596	Lenoir, E. J. J.	Applications, tools and machines	July 13, 1886
345,641	Long, M. W.	Railway signals	July 13, 1886
345,642	Long, M. W.	do	July 13, 1886
345,658	Young, J. P.	Telephones, electric	July 13, 1886
345,700	Kinsman, F. E.	Car brakes	July 20, 1886
345,720	Parcelle, A. L.	Motors	July 20, 1886
345,721	Parcelle, A. L.	Telegraphy, multiplex	July 20, 1886
345,755	Wirt, C.	Galvanometers	July 20, 1886
345,756	Wirt, C.	Batteries, galvanic	July 20, 1886
345,762	Brambel, G.	Telephones, electric	July 20, 1886
345,838	Giles, C. K. and Fenner, R. E.	Applications, general	July 20, 1886
345,845	Henry, J. C.	Locomotion	July 20, 1886
345,860	Reinmann, A. L.	Lights, filaments and carbons	July 20, 1886
345,880	Brown, A. G.	Lights, sockets and keys	July 20, 1886
345,884	Chinnoek, C. E.	Locomotion	July 20, 1886
345,937	Waterhouse, A. G.	Lights, arc	July 20, 1886
345,956	Eaton, A. K.	Conductors, lead-covered	July 20, 1886
345,998	Smith, R. F.	Applications, tools and machines	July 20, 1886
346,020	Brown, A. G.	Lights, sockets and keys	July 20, 1886
346,031	Emmner, J., jr.	Telephones, magnetic	July 20, 1886
346,032	Erhard, T.	Batteries, galvanic	July 20, 1886
346,053	Lugo, O.	do	July 20, 1886
346,094	Dickinson, S. C.	Clocks	July 27, 1886
346,183	Waters, E. G. and Sweeny, R. G.	Telephones, switch-boards	July 27, 1886



No.	NAME.	CLASS.	DATE.
346,207	Le Grande, W. W	Batteries, galvanic	July 27, 1886
346,215	Murray, J. H	Medical and surgical, body-wear	July 27, 1886
346,217	Noble, C. B	Lights, arc	July 27, 1886
346,237	Smith, R. T	Applications, general	July 27, 1886
346,250	Wheaton, F	Conductors, underground	July 27, 1886
346,314	Reeder, E. A	Telegraphy, fire	July 27, 1886
346,345	Ball, C. M	Lights, filaments and carbons	July 27, 1886
346,355	Chase, J. W	Telegraphy, fire	July 27, 1886
346,377	Lockwood, W. C	Telephones, magnetic	July 27, 1886
346,388	Stern, W. A	Lights, systems and appliances	July 27, 1886
346,395	Brewer, H. J	Batteries, galvanic	July 27, 1886
346,414	Patterson, W. R	Conductors	July 27, 1886
346,423	Burton, G. D	Connectors	July 27, 1886
346,430	Cutten, E. B	Lights, arc	July 27, 1886
346,433	Duplain, F. P	Conductors	July 27, 1886
346,465	Chandler, T. P., jr	Locomotion	Aug. 3, 1886
346,475	Hawken, T	Insulators	Aug. 3, 1886
346,484	Liemke, H. H	Railway signals	Aug. 3, 1886
346,485	Liemke, H. H	do	Aug. 3, 1886
346,505	Sears, J. W	Valve-controllers	Aug. 3, 1886
346,509	Spalding, H. C	Conductors, anti-inductive	Aug. 3, 1886
346,510	Spalding, H. C	do	Aug. 3, 1886
346,515	Sweeny, R. G	Telephones, systems	Aug. 3, 1886
346,527	Beattie, J., jr	Motors	Aug. 3, 1886
346,528	Beattie, J., jr	Induction-coils	Aug. 3, 1886
346,532	Crockett, C. H. and Allen, C. C	Bells	Aug. 3, 1886
346,533	Crockett, C. H. and Allen, C. C	Igniting devices	Aug. 3, 1886
346,561	Pyle, G. C	Lights, arc	Aug. 3, 1886
346,587	Glanville, W. L	Alarms	Aug. 3, 1886
346,594	Lord, G. W	Telephones, mechanical	Aug. 3, 1886
346,609	Rousseau, D	Annunciators	Aug. 3, 1886
346,645	Cruikshank, G. M	Conductors	Aug. 3, 1886
346,688	Robinson, W. L	Conductors, underground	Aug. 3, 1886
346,708	Bell, C. A	Telephones, systems	Aug. 3, 1886
346,724	Chandler, T. P., jr	Locomotion	Aug. 3, 1886
346,840	Campbell, E	Conductors, underground	Aug. 3, 1886
346,846	Ehrlich, H	Telephones, electric	Aug. 3, 1886
346,847	Flanders, B. S	Telegraphy, fire	Aug. 3, 1886
346,862	Ramel, A. and Dean, W. W	Clocks	Aug. 3, 1886
346,863	Ramel, A. and Dean, W. W	do	Aug. 3, 1886
346,865	Rose, P. L. and Rein, G	Telephones, systems	Aug. 3, 1886
346,866	Rose, P. L. and Rein, G	do	Aug. 3, 1886
346,876	Ullman, M	Annunciators	Aug. 3, 1886
346,902	Edgar, E. F	Locomotion	Aug. 10, 1886
346,924	Knell, J. W	Lights, systems and appliances	Aug. 10, 1886
346,930	Macready, R. A	Keys	Aug. 10, 1886
346,938	Muenchinger, G. A	Thermostats	Aug. 10, 1886
346,942	Patterson, W. R	Conductors, underground	Aug. 10, 1886
346,957	Stevens, W. L	Meters	Aug. 10, 1886
346,962	Turnbull, W. C	Telephones, magnetic	Aug. 10, 1886
346,963	Van Depoele, C. J	Locomotion	Aug. 10, 1886
346,965	Warner, E. P	Magneto-electric	Aug. 10, 1886
346,970	Whiting, H	Clocks	Aug. 10, 1886
346,971	Wilson, J	Insulators	Aug. 10, 1886
346,972	Wilson, J	do	Aug. 10, 1886
346,990	Finney, J. R	Locomotion	Aug. 10, 1886
347,013	Scola, J. P. A	Applications, general	Aug. 10, 1886
347,023	Berliner, E	Batteries, secondary	Aug. 10, 1886
347,025	Brush, C. F	Lights, systems and appliances	Aug. 10, 1886
347,029	Fisher, W. C	Magnetic locks and bolts	Aug. 10, 1886
347,038	Hey, G. W	Recorders	Aug. 10, 1886
347,068	Sedgwick, F	Magnetic locks and bolts	Aug. 10, 1886
347,069	Sedgwick, F	do	Aug. 10, 1886
347,070	Sedgwick, F	do	Aug. 10, 1886
347,071	Sedgwick, F	do	Aug. 10, 1886
347,075	Timmis, I. A. and Forbes, G	Car brakes	Aug. 10, 1886
347,097	Edison, T. A	Telephones, calls	Aug. 10, 1886
347,120	Mather, R. H	Rheostats	Aug. 10, 1886
347,140	Thomson, E	Heaters	Aug. 10, 1886
347,141	Thomson, E	do	Aug. 10, 1886
347,142	Thomson, E	do	Aug. 10, 1886
347,164	De Lodyguine, A	Lights, filaments and carbons	Aug. 10, 1886
347,204	Short, S. H	Regulators	Aug. 10, 1886
347,216	Westcott, C. H. and F	Telegraphy, fire, alarms and extinguishers	Aug. 10, 1886
347,218	Williamson, D	Lights, arc	Aug. 10, 1886
347,231	De Khotinsky, A	Batteries, secondary	Aug. 10, 1886
347,247	Lister, J. T	Lights, filaments and carbons	Aug. 10, 1886

No.	NAME.	CLASS.	DATE.
347,258	Starr, E. T.	Batteries, secondary	Aug. 10, 1886
347,259	Starr, E. T.	Batteries, galvanic	Aug. 10, 1886
347,300	Julien, E.	Batteries, secondary	Aug. 10, 1886
347,318	Brewer, J. P. and Smith, W. C.	Telegraphy, fire	Aug. 17, 1886
347,319	Brown, G. W.	do	Aug. 17, 1886
347,325	Davis, A. W. S.	Telephones, mechanical	Aug. 17, 1886
347,374	Perrin, T. J.	Telephones, magnetic	Aug. 17, 1886
347,399	Vance, T. C. H.	Indicators	Aug. 17, 1886
347,440	Partz, A. F. W.	Batteries, galvanic	Aug. 17, 1886
347,454	Wilson, J.	Insulators	Aug. 17, 1886
347,523	Speer, A.	Lights, systems and appliances	Aug. 17, 1886
347,571	Clarke, C. L.	Indicators	Aug. 17, 1886
347,572	Clarke, C. L.	Clocks	Aug. 17, 1886
347,589	Ghegan, J. J.	Valve-controllers	Aug. 17, 1886
347,592	Gray, J.	Medical and surgical, body-wear	Aug. 17, 1886
347,602	Herron, H. C.	Telegraph-poles	Aug. 17, 1886
347,625	McIntire, C.	Connectors	Aug. 17, 1886
347,628	McQueen, F. J.	Railway signals	Aug. 17, 1886
347,634	Nicholson, H. C.	Bells	Aug. 17, 1886
347,635	O'Brien, J.	Insulators	Aug. 17, 1886
347,642	Ripley, R. A.	Systems of distribution	Aug. 17, 1886
347,656	Smith, R. F.	Applications, tools and machines	Aug. 17, 1886
347,707	Grovesteen, M. W.	Valve-controllers	Aug. 17, 1886
347,752	Vogel, W.	Railway signals	Aug. 17, 1886
347,753	Vogel, W.	do	Aug. 17, 1886
347,754	Woodward, H.	Batteries, galvanic	Aug. 17, 1886
347,766	Brown, H. P. and F. H.	Rheostats	Aug. 24, 1886
347,767	Brown, H. P.	Lights, sockets and keys	Aug. 24, 1886
347,768	Buell, C. E.	Batteries, secondary, applications	Aug. 24, 1886
347,823	Neyraud, J. B.	Batteries, galvanic	Aug. 24, 1886
347,830	Renahan, J. J.	Lights, systems and appliances	Aug. 24, 1886
347,851	White, J. E.	Thermostats	Aug. 24, 1886
347,866	Butz, A. M.	do	Aug. 24, 1886
347,901	Van Depoele, C. J.	Locomotion	Aug. 24, 1886
347,902	Van Depoele, C. J.	Motors	Aug. 24, 1886
347,903	Van Depoele, C. J.	do	Aug. 24, 1886
347,904	Van Depoele, C. J.	Car-brakes	Aug. 24, 1886
347,905	Van Depoele, C. J.	Locomotion	Aug. 24, 1886
347,924	Dann, J. E. and Lapp, J.	Telephones, electric	Aug. 24, 1886
347,937	Hunter, R. M.	Regulators	Aug. 24, 1886
347,943	Leonardson, J. M.	Insulators	Aug. 24, 1886
347,952	Murray, P., jr.	Lights, systems and appliances	Aug. 24, 1886
347,964	Shallenberger, O. B.	Regulators	Aug. 24, 1886
348,008	Harris, R. L.	Locomotion	Aug. 24, 1886
348,045	Painter, G. E.	Annunciators	Aug. 24, 1886
348,048	Perkins, C. G.	Cut-outs, thermal	Aug. 24, 1886
348,049	Perkins, C. G.	Lights, incandescent	Aug. 24, 1886
348,077	Watson, T. A.	Telephones, magnetic	Aug. 24, 1886
348,114	Edison, T. A.	Telephones, details	Aug. 24, 1886
348,120	Gaskins, G. H.	Telephones, supports	Aug. 24, 1886
348,121	Gilbert, G. A.	Separators	Aug. 24, 1886
348,125	Howell, J. W.	Lights, systems and appliances	Aug. 24, 1886
348,134	Lugo, O.	Telephones, magnetic	Aug. 24, 1886
348,139	Pope, E.	Telephones, systems	Aug. 24, 1886
348,155	Dyer, R. N.	Lights, systems and appliances	Aug. 24, 1886
348,227	Mayhew, T.	Alarms	Aug. 31, 1886
348,228	Kenyon, B. L.	Telephones, mechanical	Aug. 31, 1886
348,260	Van Depoele, C. J.	Car-brakes	Aug. 31, 1886
348,371	Andrews, W. S.	Cut-outs, thermal	Aug. 31, 1886
348,385	Deprez, M. and Carpentier, J.	Regulators	Aug. 31, 1886
348,406	McGrady, J. and Sloane, G. H.	Medical and surgical, body-wear	Aug. 31, 1886
348,407	Moore, J. N. B.	Lights, systems and appliances	Aug. 31, 1886
348,429	Townsend, L.	Telephones, magnetic	Aug. 31, 1886
348,430	Townsend, L.	Telephones, electric	Aug. 31, 1886
348,437	Weiss, C. W.	Recorders	Aug. 31, 1886
348,455	Fairchild, J. M.	Cut-outs, mechanical	Aug. 31, 1886
348,456	Fairchild, J. M. and O'Connor, J.	do	Aug. 31, 1886
348,465	Hard, J. R.	Induction-coils	Aug. 31, 1886
348,473	Prescott, T. H.	Thermostats	Aug. 31, 1886
348,476	Short, S. H. and Nesmith, J. W.	Locomotion	Aug. 31, 1886
348,477	Short, S. H. and Nesmith, J. W.	do	Aug. 31, 1886
348,482	Trippe, S. L.	Batteries, secondary	Aug. 31, 1886
348,501	Stanley, W., jr.	Telephones, electric	Aug. 31, 1886
348,512	Carty, J. J.	Anti-induction devices	Aug. 31, 1886
348,542	Bronson, L. G.	Lights, arc	Sept. 7, 1886
348,562	Irish, J.	Applications, tools and machines	Sept. 7, 1886
348,572	Munsie, J. F.	Conductors, underground	Sept. 7, 1886



No.	NAME.	CLASS.	DATE.
348,578	Perrin, T. J	Telephones, systems	Sept. 7, 1886
348,579	Perrin, T. J	do	Sept. 7, 1886
348,603	Wessels, E. J	Lights, systems and appliances	Sept. 7, 1886
348,606	Worth, A. B	Applications, general	Sept. 7, 1886
348,625	Farbaky, S. and Schenek, S	Batteries, secondary	Sept. 7, 1886
348,636	Park, H. S	Car-brakes	Sept. 7, 1886
348,646	Weston, E	Cut-outs, thermal	Sept. 7, 1886
348,647	Weston, E	Lights, sockets and keys	Sept. 7, 1886
348,648	Weston, E	Meters	Sept. 7, 1886
348,649	Weston, E	Lights, systems and appliances	Sept. 7, 1886
348,707	Wheeler, A. D	Telegraphy, fire	Sept. 7, 1886
348,708	Willets, J. P. and Crolus, E. R	Lights, systems and appliances	Sept. 7, 1886
348,771	Payne, C. Q	Separators	Sept. 7, 1886
348,792	Smith, M. H	Locomotion	Sept. 7, 1886
348,799	Thone, F	Lights, arc	Sept. 7, 1886
348,822	Belk, J. C	Conductors	Sept. 7, 1886
348,845	Haskins, C. C	Lights, systems and appliances	Sept. 7, 1886
348,875	Wightman, M. J. and Lemp, H	Lights, incandescent	Sept. 7, 1886
348,876	Wightman, M. J	Regulators	Sept. 7, 1886
348,880	Averell, W. W	Locomotion	Sept. 7, 1886
348,883	Bossard, A	Magneto-electric	Sept. 7, 1886
348,896	Eastmann, W. H	Telephones, mechanical	Sept. 7, 1886
348,901	Goldner, W. C	Batteries, galvanic	Sept. 7, 1886
348,927	Pfannkuche, G	Lights, arc	Sept. 7, 1886
348,936	Turnbull, W. C	Telephones, switches	Sept. 7, 1886
348,949	Böbling, J	Indicators	Sept. 14, 1886
348,971	Heymann, E. and F. W	Lights, arc	Sept. 14, 1886
348,972	Heymann, E. and F. W	do	Sept. 14, 1886
348,973	Heymann, E. and F. W	do	Sept. 14, 1886
348,977	Keilholtz, P. O	do	Sept. 14, 1886
348,978	Keilholtz, P. O	do	Sept. 14, 1886
348,994	Pearce, T. J. and Beardsley, M. W	Conductors	Sept. 14, 1886
349,022	Wilson, J	Insulators	Sept. 14, 1886
349,040	Hadden, W	Railway signals	Sept. 14, 1886
349,042	Herz, C	Telephones, systems	Sept. 14, 1886
349,043	Herz, C	do	Sept. 14, 1886
349,049	Lippincott, J. E	Telegraph-poles	Sept. 14, 1886
349,109	Lenaerts, L	Valve-controllers	Sept. 14, 1886
349,214	Farmer, M. G	Telegraphy, circuits and systems	Sept. 14, 1886
349,222	Jarriant, B	Batteries, galvanic	Sept. 14, 1886
349,312	Marshall, W	Telephones, magnetic	Sept. 21, 1886
349,330	Bazin, E	Batteries, galvanic	Sept. 21, 1886
349,392	Hansell, W	Magneto-electric	Sept. 21, 1886
349,397	Lantz, J. A	Connectors	Sept. 21, 1886
349,398	Lantz, J. A	do	Sept. 21, 1886
349,422	Bartlett, C. O	Separators	Sept. 21, 1886
349,472	Anderson, J. C	Conductors, underground	Sept. 21, 1886
349,493	Gerry, J. H	Clocks	Sept. 21, 1886
349,494	Gerry, J. H. and Hunter, M. E	do	Sept. 21, 1886
349,516	Perkins, C. G	Lights, systems and appliances	Sept. 21, 1886
349,533	Smith, A. T	Igniting devices	Sept. 21, 1886
349,539	Tabony, J. H	Telephones, systems	Sept. 21, 1886
349,563	Bossard, A	Motors	Sept. 21, 1886
349,572	Dick, R	Lights, filaments and carbons	Sept. 21, 1886
349,575	Fairbanks, L. S	Telephones, magnetic	Sept. 21, 1886
349,579	Geary, J	Annunciators	Sept. 21, 1886
349,580	Geary, J	do	Sept. 21, 1886
349,600	Piper, C. E.	Batteries, galvanic	Sept. 21, 1886
349,605	Reams, A. J	Indicators	Sept. 21, 1886
349,611	Stanley, W., jr	Induction-coils	Sept. 21, 1886
349,612	Stanley, W., jr	do	Sept. 21, 1886
349,613	Stanley, W., jr	Lights, systems and appliances	Sept. 21, 1886
349,614	Stauley, W., jr	do	Sept. 21, 1886
349,615	Stanley, W., jr	Magneto-electric	Sept. 21, 1886
349,616	Stanley, W., jr	Induction-coils	Sept. 21, 1886
349,617	Stanley, W., jr	do	Sept. 21, 1886
349,650	Hunter, M. E. and Gerry, J. H	Clocks	Sept. 21, 1886
349,654	Keegan, V. E	Motors	Sept. 21, 1886
349,708	Gazaille, H. and Low, H. F	Circuit-closers	Sept. 28, 1886
349,710	Gnest, J. H	Recorders	Sept. 28, 1886
349,715	Higham, E. T. and D	Motors	Sept. 28, 1886
349,716	Higham, E. T. and D	Magneto-electric	Sept. 28, 1886
349,738	Park, H. S	Car-brakes	Sept. 28, 1886
349,739	Perkins, C. G	Conductors, underground	Sept. 28, 1886
349,767	Torrey, A. and Casey, D. J	Recorders	Sept. 28, 1886
349,780	Bernsee, C. D	do	Sept. 28, 1886
349,788	Fitch, N. T	Insulators	Sept. 28, 1886

No.	NAME.	CLASS.	DATE.
349,797	Jagel, J. M.	Conductors, underground	Sept. 28, 1886
349,809	Perkins, C. G.	Connectors	Sept. 28, 1886
349,839	Gannon, P.	Telephones, calls	Sept. 28, 1886
349,849	Kugler, G.	Medical and surgical, body-wear	Sept. 28, 1886
349,879	Garcia, D. T.	Clocks	Sept. 28, 1886
349,893	McGill, S. F.	Conductors	Sept. 28, 1886
349,912	Thomson, E.	Magneto-electric	Sept. 28, 1886
349,926	Daves, W.	Circuit-closers	Sept. 28, 1886
349,927	Daves, W.	Railway signals	Sept. 28, 1886
349,945	Maver, W., jr.	Telegraphy, quadruplex	Sept. 28, 1886
349,947	Mehren, J. F.	Telephones, systems	Sept. 28, 1886
349,975	Bickford, J. H.	Telephones, systems, automatic	Sept. 28, 1886
349,976	Bickford, J. H.	Telephones, calls	Sept. 28, 1886
349,999	Jeffery, G.	Lights, arc	Sept. 28, 1886
350,000	Jenkins, J.	Magneto-electric	Sept. 28, 1886
350,003	Kennedy, R.	do	Sept. 28, 1886
350,024	Townsend, L.	Telephones, systems	Sept. 28, 1886
350,025	Vogler, R.	Motors	Sept. 28, 1886
350,046	Doubleday, H. M. and Lyman, J.	Lights, systems and appliances	Sept. 28, 1886
350,126	Frost, J. W.	Telegraphy, fire	Oct. 5, 1886
350,130	Hamlin, E. B.	Telephones, magnetic	Oct. 5, 1886
350,140	Lane, G. M.	Lights, arc, positive feed	Oct. 5, 1886
350,154	Radford, B. F.	Magneto-electric	Oct. 5, 1886
350,160	See, J. W.	Telephones, systems	Oct. 5, 1886
350,177	Weisgerber, W. F. and Himmer, I. C.	Clocks	Oct. 5, 1886
350,200	Humes, J. J. R.	Applications, tools and machines	Oct. 5, 1886
350,203	Lister, J. T.	Telephones, details	Oct. 5, 1886
350,215	Sargent, F. G.	Telephones, electric	Oct. 5, 1886
350,234	Edison, T. A. and Gilliland, E. T.	Telegraphy, railway-car	Oct. 5, 1886
350,235	Edison, T. A. and Gilliland, E. T.	do	Oct. 5, 1886
350,279	Wickersham, C. H.	Indicators	Oct. 5, 1886
350,293	Cox, H. B.	Connectors	Oct. 5, 1886
350,294	Cox, H. B.	Batteries, galvanic	Oct. 5, 1886
350,296	Desruelles, L. A. W.	do	Oct. 5, 1886
350,297	Desruelles, L. A. W.	do	Oct. 5, 1886
350,299	Dolbear, A. E.	Telephones, electric	Oct. 5, 1886
350,312	Markland, W. H.	Magnetic locks and bolts	Oct. 5, 1886
350,320	Robertson, J. H.	Telegraphy, automatic	Oct. 5, 1886
350,355	Forsyth, C. S.	Lights, systems and appliances	Oct. 5, 1886
350,365	Holdsworth, J. W.	Insulators	Oct. 5, 1886
350,381	Meisenheimer, A.	Thermostats	Oct. 5, 1886
350,388	Perry, N. W.	Alarms	Oct. 5, 1886
350,411	Buck, W.	Circuit-closers	Oct. 5, 1886
350,426	Frost, J. W. and Lake, S. D.	Telegraphy, fire	Oct. 5, 1886
350,430	Hussey, C. A.	Clocks	Oct. 5, 1886
350,431	Hussey, C. A.	do	Oct. 5, 1886
350,432	Hussey, C. A.	do	Oct. 5, 1886
350,433	Hussey, C. A.	do	Oct. 5, 1886
350,434	Hussey, C. A.	do	Oct. 5, 1886
350,435	Hussey, C. A.	do	Oct. 5, 1886
350,445	Potter, E. B.	Heaters	Oct. 5, 1886
350,449	Tucker, C. A.	Annunciators	Oct. 5, 1886
350,450	Tucker, C. A.	Alarms	Oct. 5, 1886
350,451	Tucker, C. A.	Telegraphy, fire	Oct. 5, 1886
350,469	Scott, D. B.	Telegraphy, printing	Oct. 5, 1886
350,482	Diehl, P.	Systems of distribution	Oct. 12, 1886
350,515	Williams, B.	Conductors, underground	Oct. 12, 1886
350,519	Woolley, L. G.	Cut-outs, electro-magnetic	Oct. 12, 1886
350,548	Morley, E. A.	Thermostats	Oct. 12, 1886
350,610	Willis, C. F.	Telephones, calls	Oct. 12, 1886
350,615	Buckingham, C. L.	Telegraphy, printing	Oct. 12, 1886
350,616	Buckingham, C. L.	do	Oct. 12, 1886
350,617	Buckingham, C. L.	do	Oct. 12, 1886
350,621	Drescher, L.	Batteries, galvanic	Oct. 12, 1886
350,626	Hess, A. T. and Stoltenberg, H. A.	Annunciators	Oct. 12, 1886
350,634	McCullough, L. H.	Telegraphy, fire	Oct. 12, 1886
350,644	Stewart, G. W.	Telegraphy, relays and sounders	Oct. 12, 1886
350,648	Whitney, E. R.	Cut-outs, thermal	Oct. 12, 1886
350,668	Diehl, P.	Motors	Oct. 12, 1886
350,676	Hering, C.	Regulators	Oct. 12, 1886
350,715	Barrett, J. A.	Conductors, anti-inductive	Oct. 12, 1886
350,728	Fisher, F. E.	Motors	Oct. 12, 1886
350,737	Hall, E. L.	Telephones, details	Oct. 12, 1886
350,754	Loomis, O. P. and Cooley, H. W.	Regulators	Oct. 12, 1886
350,772	Roberts, G. L.	Telephones, electric	Oct. 12, 1886
350,790	Wicks, P. J.	Railway signals	Oct. 12, 1886
350,804	Chase, S. A.	Telegraphy, fire	Oct. 12, 1886



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350,823	Fleckinger, J	Alarms, burglar	Oct. 12, 1886
350,828	Jones, L. B	Electro-magnets, machines for winding	Oct. 12, 1886
350,829	Jones, L. B	Connectors	Oct. 12, 1886
350,843	Rogers, C	Insulators	Oct. 12, 1886
350,882	Herrmann, C	Telegraphy, transmitters	Oct. 12, 1886
350,945	Roth, C. W	Separators	Oct. 19, 1886
350,954	Tesla, N	Regulators	Oct. 19, 1886
350,955	Thomson, E	Cut-outs, electro-magnetic	Oct. 19, 1886
350,956	Thomson, E	Lights, arc	Oct. 19, 1886
350,957	Thomson, E	Electro-magnets	Oct. 19, 1886
350,958	Thomson, E	Lights, systems and appliances	Oct. 19, 1886
350,975	Cutten, E. B	Lights, arc	Oct. 19, 1886
350,983	Linville, J. H	Telegraphy, printing	Oct. 19, 1886
350,984	Linville, J. H	do	Oct. 19, 1886
351,075	Slocum, E. L	Telegraphy, fire	Oct. 19, 1886
351,077	Stögermayr, F. F	Induction-coils	Oct. 19, 1886
351,099	Dowden, C. H	Annunciators	Oct. 19, 1886
351,134	Stiegelmaier, W. H	Thermostats	Oct. 19, 1886
351,148	Adams, T. E	Magneto-electric	Oct. 19, 1886
351,167	Diehl, P	do	Oct. 19, 1886
351,191	McCracken, E. D	Conductors	Oct. 19, 1886
351,192	McCracken, E. D	do	Oct. 19, 1886
351,193	McCracken, E. D	Conductors, underground	Oct. 19, 1886
351,209	Seiler, P	Telephones, magnetic	Oct. 19, 1886
351,222	Thackara, S	Clocks	Oct. 19, 1886
351,229	Walter, H	Motors	Oct. 19, 1886
351,233	Watkins, H. W	Medical and surgical, body-wear	Oct. 19, 1886
351,239	Abell, J. J. and Gifford, C. B	Clocks	Oct. 19, 1886
351,250	Cole, W. R	Telephones, electric	Oct. 19, 1886
351,256	Farmer, M. G	Electro-magnets	Oct. 19, 1886
351,257	Farmer, M. G	Telephones, relays and repeaters	Oct. 19, 1886
351,258	Farmer, M. G	Telephones, magnetic	Oct. 19, 1886
351,314	Delmage, W. A	Applications, tools and machines	Oct. 19, 1886
351,319	Gibson, J. H	Railway signals	Oct. 19, 1886
351,351	Adams, T. E	Regulators	Oct. 26, 1886
351,367	Langdon-Davies, C	Telegraphy, circuits and systems	Oct. 26, 1886
351,369	Ferguson, A. C	Lights, systems and appliances	Oct. 26, 1886
351,384	Le Grande, W. W	Railway signals	Oct. 26, 1886
351,388	Mather, R. H	Galvanometers	Oct. 26, 1886
351,389	Mead, C. K	Telephones, supports	Oct. 26, 1886
351,408	Stern, P. K	Alarms, burglar	Oct. 26, 1886
351,419	Woolley, L. G	Valve-controllers	Oct. 26, 1886
351,485	Biggs, J. M	Keys	Oct. 26, 1886
351,488	Bowyer, J. M	Circuit-closers	Oct. 26, 1886
351,524	Phelps, L. J	Telegraphy, railway-car	Oct. 26, 1886
351,525	Phelps, L. J	do	Oct. 26, 1886
351,544	Walter, H. E	Magneto-electric	Oct. 26, 1886
351,569	Berliner, E	Telephones, electric	Oct. 26, 1886
351,588	Farmer, M. G	Telephones, systems	Oct. 26, 1886
351,589	Gaulard, L. and Gibbs, J. D	Systems of distribution	Oct. 26, 1886
351,597	Heissler, N. C	Telephones, calls	Oct. 26, 1886
351,599	Henzel, C	Annunciators	Oct. 26, 1886
351,600	Henzel, C. and Wood, W	Magnetic locks and bolts	Oct. 26, 1886
351,601	Hill, W. S	Lights, arc	Oct. 26, 1886
351,602	Hirlimann, C. J	Batteries, galvanic	Oct. 26, 1886
351,611	Alexander, R	Conductors	Oct. 26, 1886
351,650	Park, H. S	Car-brakes	Oct. 26, 1886
351,681	Wilson, J. C	Recorders	Oct. 26, 1886
351,697	Greene, F. V	Conductors, underground	Oct. 26, 1886
351,699	Houghton, E. J. and Collet, T. M	Regulators	Oct. 26, 1886
351,702	Johnson, W. S	Thermostats	Oct. 26, 1886
351,704	Knudson, A. A	Telephones, mechanical	Oct. 26, 1886
351,719	Stone, L. B	Thermostats	Oct. 26, 1886
351,746	Derrick, F. E. and Brott, S. C	Alarms	Nov. 2, 1886
351,759	Graver, E. S	Railway signals	Nov. 2, 1886
351,772	Hoffman, J. W	Alarms, burglar	Nov. 2, 1886
351,813	Stites, G	Lightning-rods	Nov. 2, 1886
351,834	Jenkins, M. R	Keys	Nov. 2, 1886
351,855	Edison, T. A	Lights, incandescent	Nov. 2, 1886
351,856	Edison, T. A	do	Nov. 2, 1886
351,869	Kookogey, W. P	do	Nov. 2, 1886
351,902	Eickemeyer, R	Magneto-electric	Nov. 2, 1886
351,903	Eickemeyer, R	do	Nov. 2, 1886
351,904	Eickemeyer, R	do	Nov. 2, 1886
351,905	Eickemeyer, R	Telephones, magnetic	Nov. 2, 1886
351,906	Eickemeyer, R	Magneto-electric	Nov. 2, 1886
351,907	Eickemeyer, R	do	Nov. 2, 1886

No.	NAME.	CLASS.	DATE.
351,913	Haddock, W	Conductors, underground	Nov. 2, 1886
351,933	Moffatt, J. M. and Blakeney, E	Telegraphy, quadruplex	Nov. 2, 1886
351,961	Brush, C. F	Regulators	Nov. 2, 1886
351,973	Gifford, A. T	Lights, arc	Nov. 2, 1886
352,006	Schaefer, F	Lights, sockets and keys	Nov. 2, 1886
352,007	Schaefer, F	do	Nov. 2, 1886
352,035	Brown, H. P	Cut-outs, electro-magnetic	Nov. 2, 1886
352,043	Cox, H. B	Circuit-closers	Nov. 2, 1886
352,044	Cox, H. B	Valve-controllers	Nov. 2, 1886
352,059	Kaler, W. A	Telegraphy, printing	Nov. 2, 1886
352,070	Robertson, A. R	Applications, tools and machines	Nov. 2, 1886
352,074	Van Depoele, C. J	Magneto-electric	Nov. 2, 1886
352,084	Drescher, L	Induction-coils	Nov. 2, 1886
352,086	Ennis, H. J	Indicators	Nov. 2, 1886
352,105	Zipernowsky, K., Déri, M., and Bláthy, O. P.	Induction-coils	Nov. 2, 1886
352,119	Collins, W. H	Telephones, electric	Nov. 9, 1886
352,143	Munson, J. E	Telegraphy, printing	Nov. 9, 1886
352,154	Rousseau, D	Magnetic locks and bolts	Nov. 9, 1886
352,167	Van Depoele, C. J	Car brakes	Nov. 9, 1886
352,176	Bonta, J. W	Telephones, electric	Nov. 9, 1886
352,177	Bonta, J. W	do	Nov. 9, 1886
352,178	Bonta, J. W	do	Nov. 9, 1886
352,179	Bonta, J. W	do	Nov. 9, 1886
352,203	Reichling, R	Alarms	Nov. 9, 1886
352,234	Eickemeyer, R	Magneto-electric	Nov. 9, 1886
352,265	Ries, E. E	Locomotion	Nov. 9, 1886
352,317	Haskins, C. D	Relays and sounders	Nov. 9, 1886
352,320	Hedge, J. F., jr	Clocks	Nov. 9, 1886
352,324	Hoffman, J. W	Batteries, galvanic	Nov. 9, 1886
352,342	Mingle, G. W. and Brown, W. T	Cut-outs, thermal	Nov. 9, 1886
352,374	Tilden, J. A	Steering and propulsion	Nov. 9, 1886
352,407	Glasgow, F	Alarms	Nov. 9, 1886
352,412	James, De W. C	Railway signals	Nov. 9, 1886
352,435	Wilson, J. C	Telegraphy, printing	Nov. 9, 1886
352,436	Winton, H. D	Insulators	Nov. 9, 1886
352,437	Winton, H. D	do	Nov. 9, 1886
352,442	Bulen, G. F	Thermostats	Nov. 9, 1886
352,445	Butler, J. W	Conductors	Nov. 9, 1886
352,472	Lüngen, A	Bells	Nov. 9, 1886
352,473	Lüngen, A	Igniting devices	Nov. 9, 1886
352,474	Lüngen, A	Telephones, switches	Nov. 9, 1886
352,486	Patterson, W. R	Batteries, galvanic	Nov. 9, 1886
352,504	Builer, J. W	Conductors, underground	Nov. 9, 1886
352,549	Le Grande, W. W. and Burton, G. W	Transmitters	Nov. 16, 1886
352,571	Pridham, C. W	Railway signals	Nov. 16, 1886
352,577	Shaver, G. F	Telephones, mechanical	Nov. 16, 1886
352,590	Toulmin, M	Railway signals	Nov. 16, 1886
352,596	Wilson, G. W	Telephones, systems	Nov. 16, 1886
352,600	Wright, C. G	Telegraphy, perforating	Nov. 16, 1886
352,621	Lemp, H. and Wightman, M. J	Cut-outs, thermal	Nov. 16, 1886
352,622	Lemp, H. and Wightman, M. J	do	Nov. 16, 1886
352,625	Lyman, D. and Wheeler, M	Lights, incandescent	Nov. 16, 1886
352,645	Gaynor, T. F	Telegraphy, fire	Nov. 16, 1886
352,647	Ghegan, J. J	Indicators	Nov. 16, 1886
352,691	Howell, J. W	Systems of distribution	Nov. 16, 1886
352,700	Mahanay, S. C. and Campbell, B. L	Railway signals	Nov. 16, 1886
352,708	Moses, O. A	Batteries, secondary	Nov. 16, 1886
352,725	Westinghouse, G., jr	Relays and sounders	Nov. 16, 1886
352,735	Cole, W. R	Telephones, magnetic	Nov. 16, 1886
352,754	Hurlbut, S. E	Conductors, underground	Nov. 16, 1886
352,771	Morehouse, H. G	do	Nov. 16, 1886
352,796	Baldwin, C. W	Applications, tools and machines	Nov. 16, 1886
352,806	Cole, W. R	Telephones, electric	Nov. 16, 1886
352,852	Brooks, D., jr	Conductors	Nov. 16, 1886
352,861	Dowden, C. H	Alarms, burglar	Nov. 16, 1886
352,865	Freir, S. P	Telegraphy, quadruplex	Nov. 16, 1886
352,874	Johnson, W. S	Thermostats	Nov. 16, 1886
352,877	Leland, E. J	Batteries, galvanic	Nov. 16, 1886
352,900	Whelless, M. and Darden, J. D	Telephones, electric	Nov. 16, 1886
352,903	Le Grande, W. W	Railway signals	Nov. 16, 1886
352,948	Glover, L. S	Telephones, calls	Nov. 23, 1886
353,003	Recordon, E	Motors	Nov. 23, 1886
353,035	Howell, J. W	Magneto-electric	Nov. 23, 1886
353,036	Shaw, E. S	Locomotion	Nov. 23, 1886
353,120	Brown, R. G	Insulators	Nov. 23, 1886
353,123	Clark, J. H	Applications, tools and machines	Nov. 23, 1886
353,128	Field, S. D	Telegraphy, dynamo	Nov. 23, 1886



No.	NAME.	CLASS.	DATE.
353,141	Kendall, J. A	Batteries, galvanic	Nov. 23, 1886
353,142	Knowles, E. R	Batteries, secondary, applications	Nov. 23, 1886
353,151	Mather, R. H	Magneto-electric	Nov. 23, 1886
353,158	Reinmann, A. L	Lights, incandescent	Nov. 23, 1886
353,164	Schmid, A	Magneto-electric	Nov. 23, 1886
353,179	Thomson, E	Regulators	Nov. 23, 1886
353,180	Thomson, E	do	Nov. 23, 1886
353,184	Wehrle, J. H	Telephones, switch-boards	Nov. 23, 1886
353,248	Buell, C. E	Batteries, secondary	Nov. 23, 1886
353,263	Lüngen, A	Magnetic locks and bolts	Nov. 23, 1886
353,269	Parker, T. H. and Geary, J	Alarms, burglar	Nov. 23, 1886
353,273	Tucker, C. A. and Markland, W. H	Bells	Nov. 23, 1886
353,274	Tucker, C. A. and Huebel, O. H	do	Nov. 23, 1886
353,288	Conklin, J. I., jr	Relays and sounders	Nov. 30, 1886
353,305	Henneberg, H. and Lorenz, R. O	Lights, arc	Nov. 30, 1886
353,310	Keith, N. S	Magneto-electric	Nov. 30, 1886
353,333	Van Depoele, C. J	Lights, incandescent	Nov. 30, 1886
353,334	Van Depoele, C. J	Cut-outs, electro-magnetic	Nov. 30, 1886
353,335	Van Depoele, C. J	Locomotion	Nov. 30, 1886
353,337	Wallace, T. and En Holm, O. A	Telephones, electric	Nov. 30, 1886
353,346	Baldwin, C. E	Medical and surgical, body-wear	Nov. 30, 1886
353,349	Buell, C. E	Lights, systems and appliances	Nov. 30, 1886
353,350	Carty, J. J	Telephones, systems	Nov. 30, 1886
353,367	Meston, A. W	Regulators	Nov. 30, 1886
353,393	Williams, T. D., Eitemiller, G. M., and Lucock, J. S.	Railway signals	Nov. 30, 1886
353,403	Deckard, L. L	Applications, general	Nov. 30, 1886
353,414	Coerper, C	Magneto-electric	Nov. 30, 1886
353,489	Gerst, M	Telephones, mechanical	Nov. 30, 1886
353,511	Sorley, C	Batteries, secondary	Nov. 30, 1886
353,536	Burnley, W	Telephones, electric	Nov. 30, 1886
353,541	Cowper, E. A	Telegraphy, automatic	Nov. 30, 1886
353,566	Lackersteen, M. H	Applications, general	Nov. 30, 1886
353,592	Robertson, J. H	Telegraphy, automatic	Nov. 30, 1886
353,593	Robertson, J. H	do	Nov. 30, 1886
353,594	Robertson, J. H	do	Nov. 30, 1886
353,598	Shaw, E	Lights, filaments and carbons	Nov. 30, 1886
353,603	Stanley, W., jr	Cut-outs, mechanical	Nov. 30, 1886
353,637	Likly, H., Carpenter, C. A., and Graves, F. B.	Thermostats	Nov. 30, 1886
353,643	Pyle, G. C	Lights, arc, gravity feed, frictional	Nov. 30, 1886
353,649	Waddell, M	Galvanometers	Nov. 30, 1886
353,653	Van Depoele, C. J	Conductors	Nov. 30, 1886
353,683	Joues, J. S	Telephones, mechanical	Dec. 7, 1886
353,684	Jones, J. S	do	Dec. 7, 1886
353,694	McDonough, J. W	Telephones, electric	Dec. 7, 1886
353,715	Shryock, J. W	Telegraphy, transmitters	Dec. 7, 1886
353,755	Palmer, N. F	Telephones, electric	Dec. 7, 1886
353,757	Partz, A. F. W	Batteries, galvanic	Dec. 7, 1886
353,766	Thompson, A. and Ritchie, R. O	Telegraphy, fire	Dec. 7, 1886
353,783	Edison, T. A	Lights, incandescent	Dec. 7, 1886
353,789	Ives, E. B	Telegraphy, railway-car	Dec. 7, 1886
353,797	Marshall, J. H	Batteries, secondary, applications	Dec. 7, 1886
353,827	Smith, H. J	Magneto-electro, hand-machines	Dec. 7, 1886
353,829	Sprague, F. J	Locomotion	Dec. 7, 1886
353,840	Bailey, J. S	Clocks	Dec. 7, 1886
353,880	Park, H. S	Car-brakes	Dec. 7, 1886
353,915	Bradley, C. S	Galvanometers	Dec. 7, 1886
353,940	Hayes, H. V	Telephones, systems	Dec. 7, 1886
353,984	Smith, W. F	Connectors	Dec. 7, 1886
353,986	Sperry, E. A	Regulators	Dec. 7, 1886
353,987	Sperry, E. A	Motors	Dec. 7, 1886
353,988	Sperry, E. A	Regulators	Dec. 7, 1886
353,989	Sperry, E. A	Magneto-electric	Dec. 7, 1886
353,990	Sperry, E. A	Regulators	Dec. 7, 1886
354,001	Wirsching, A	Telegraphy, printing	Dec. 7, 1886
354,111	Edgerton, N. H	Motors	Dec. 14, 1886
354,131	Guion, R. L	Thermostats	Dec. 14, 1886
354,139	House, H. A. and H. A., jr	Relays and sounders	Dec. 14, 1886
354,169	Morton, W. J	Telephones, magnetic	Dec. 14, 1886
354,209	Painter, G. E	Annunciators	Dec. 14, 1886
354,233	Rice, E. W., jr	Lights, systems and appliances	Dec. 14, 1886
354,241	Rose, A. W	Telephones, electric	Dec. 14, 1886
354,257	Slattery, M. M. M	Rheostats	Dec. 14, 1886
354,258	Slattery, M. M. M	Lights, systems and appliances	Dec. 14, 1886
354,272	Thomson, E	Batteries, secondary	Dec. 14, 1886
354,273	Thomson, E	Regulators	Dec. 14, 1886
354,274	Thomson, E	Induction-coils	Dec. 14, 1886

No.	NAME.	CLASS.	DATE.
354,290	Williams, B.	Conductors, underground	Dec. 14, 1886
354,291	Williamson, D.	Lights, systems and appliances	Dec. 14, 1886
354,292	Williamson, D.	Magneto-electric	Dec. 14, 1886
354,302	Carpenter, G. E. and Tucker, A. F.	Telegraphy, railway-car	Dec. 14, 1886
354,310	Edison, T. A.	Lights, filaments and carbons	Dec. 14, 1886
354,320	Johnson, E. H.	Conductors	Dec. 14, 1886
354,342	Pratt, C. C.	Lightning-rods	Dec. 14, 1886
354,350	Samuel, E.	Locomotion	Dec. 14, 1886
354,352	Sass, V. and Friederich, K.	Batteries, secondary	Dec. 14, 1886
354,402	Eichmeyer, J. C.	Telephones, magnetic	Dec. 14, 1886
354,434	O'Keenan, C. E.	Batteries, galvanic	Dec. 14, 1886
354,460	Burton, G. D.	Telegraphy, railway-car	Dec. 14, 1886
354,466	Eschwei, C.	Cut-outs, thermal	Dec. 14, 1886
354,469	Gould, C. C.	Telephones, systems	Dec. 14, 1886
354,505	Cull, W. J. and Scattergood, C. F.	Annunciators	Dec. 14, 1886
354,508	Frleigh, S.	Alarms	Dec. 14, 1886
354,525	Himmer, V.	Clocks	Dec. 14, 1886
354,530	Boissier, H. R.	Lights, arc, gravity feed, gear	Dec. 21, 1886
354,538	Curtis, C. G. and Crocker, F. B.	Magneto-electric	Dec. 21, 1886
354,539	Curtis, C. G. and Wheeler, S. S.	do	Dec. 21, 1886
354,541	Drawbaugh, D.	Telephones, electric	Dec. 21, 1886
354,542	Drawbaugh, D.	do	Dec. 21, 1886
354,558	Wheeler, S. S. and Curtis, C. G.	Magneto-electric	Dec. 21, 1886
354,606	Mather, R. H.	Regulators	Dec. 21, 1886
354,637	Hart, G. W.	Incrustation	Dec. 21, 1886
354,639	Jenney, C. D.	Lights, arc	Dec. 21, 1886
354,758	Adams, J. S.	Lights, systems and appliances	Dec. 21, 1886
354,759	Adams, J. S.	do	Dec. 21, 1886
354,760	Adams, J. S.	do	Dec. 21, 1886
354,761	Anderson, A.	Telegraphy, fire	Dec. 21, 1886
354,781	Gordon, J. E. H.	Lights, systems and appliances	Dec. 21, 1886
354,782	Gordon, J. E. H.	do	Dec. 21, 1886
354,783	Gordon, J. E. H.	Systems of distribution	Dec. 21, 1886
354,788	Hickley, A. S.	Lights, incandescent	Dec. 21, 1886
354,791	Irwin, J. H.	Magneto-electric	Dec. 21, 1886
354,793	Knight, W. H.	Locomotion	Dec. 21, 1886
354,814	Steiner, J.	Keys	Dec. 21, 1886
354,815	Steiner, J.	Relays and sounders	Dec. 21, 1886
354,818	Voelker, W. L.	Telephones, details	Dec. 21, 1886
354,827	Burton, G. D.	Telegraphy, railway-car	Dec. 21, 1886
354,838	Michales, M. A. and Michaels, A.	Applications, general	Dec. 21, 1886
354,847	Walter, W. C.	Cut-outs, thermal	Dec. 21, 1886
354,853	Cabell, S. G.	Applications, general	Dec. 21, 1886
354,856	Frost, J. W.	Telegraphy, fire	Dec. 21, 1886
354,858	Geary, J.	Alarms, burglar	Dec. 21, 1886
354,881	Bain, F.	Applications, tools and machines	Dec. 28, 1886
354,892	Du Bois, J. S.	Conductors, underground	Dec. 28, 1886
354,919	Manny, W. B.	Circuit-closers	Dec. 28, 1886
354,923	Mindeleff, D.	Separators	Dec. 28, 1886
354,932	Price, F. A.	Thermostats	Dec. 28, 1886
354,942	Shaver, G. F.	Telephones, systems	Dec. 28, 1886
354,945	Sperry, E. A.	Magneto-electric	Dec. 28, 1886
354,946	Sperry, E. A.	do	Dec. 28, 1886
354,965	Black, C. S. and Pfister, P. C.	Thermostats	Dec. 28, 1886
354,992	Street, S. T.	Railway signals	Dec. 28, 1886
354,996	Absterdam, J.	Telegraphy, circuits and systems	Dec. 28, 1886
355,024	Paine, H. M.	Motors	Dec. 28, 1886
355,032	Schneekloth, H. A.	Telephones, magnetic	Dec. 28, 1886
355,055	Bickford, J. H.	Telegraphy, railway-car	Dec. 28, 1886
355,059	Charles, J.	Medical and surgical, body-wear	Dec. 28, 1886
355,063	Crocker, F. B.	Conductors, underground	Dec. 28, 1886
355,129	Brady, J.	Lights, arc	Dec. 28, 1886
355,149	Dolbear, A. E.	Telephones, electric	Dec. 28, 1886
355,164	Guion, R. L.	Thermostats	Dec. 28, 1886
355,165	Hanks, M.	Insulators	Dec. 28, 1886
355,172	Jones, R. F.	Lights, arc, gravity feed, frictional	Dec. 28, 1886
355,189	McLaughlin, J. F.	Telephones, systems	Dec. 28, 1886
355,190	McLaughlin, J. F.	do	Dec. 28, 1886
355,226	Smith, D. J. and Sinclair, D.	do	Dec. 28, 1886
355,330	Locke, S. D.	Conductors, underground	Jan. 4, 1887
355,363	Weinhaus, T. H.	Telephones, mechanical	Jan. 4, 1887
355,350	Carpenter, G. A.	Connectors	Jan. 4, 1887
355,382	Chapman, W. H. and Donahue, B. C.	Indicators	Jan. 4, 1887
355,383	Chinnock, C. E.	Telephones, calls	Jan. 4, 1887
355,384	Chinnock, C. E.	Alarms	Jan. 4, 1887
355,400	Keeler, T. B.	Lights, systems and appliances	Jan. 4, 1887
355,412	Quinby, W. C.	Batteries, galvanic	Jan. 4, 1887



No.	NAME.	CLASS.	DATE.
355,420	Stockwell, J. O	Anti-induction devices	Jan. 4, 1887
355,423	Watkins, F. C	Connectors	Jan. 4, 1887
355,424	Watkins, F. C	Telephones, magnetic	Jan. 4, 1887
355,425	Watkins, F. C	Telephones, switch-boards	Jan. 4, 1887
355,426	Watkins, F. C	Telephones, electric	Jan. 4, 1887
355,431	Arthur, W	Telegraphy, relays and sounders	Jan. 4, 1887
355,434	Broich, J. and Luebke, A. E. G	Clocks	Jan. 4, 1887
355,443	Edwards, H. F	Lights, systems and appliances	Jan. 4, 1887
355,446	Greenfield, E. T	do	Jan. 4, 1887
355,468	Phelps, L. J	Telegraphy, railway-car	Jan. 4, 1887
355,469	Phelps, L. J	do	Jan. 4, 1887
355,470	Phelps, L. J	do	Jan. 4, 1887
355,491	Wiley, G. L	Conductors	Jan. 4, 1887
355,492	Wiley, G. L	do	Jan. 4, 1887
355,493	Wiley, G. L	do	Jan. 4, 1887
355,548	Meyer, A	Telegraphy, fire	Jan. 4, 1887
355,611	Howson, H	Connectors	Jan. 4, 1887
355,655	Munson, A. J	Lightning-rods	Jan. 4, 1887
355,662	Pike, D. E	Telegraphy, printing	Jan. 4, 1887
355,685	Egan, C. E	Telephones, magnetic	Jan. 11, 1887
355,686	Egan, C. E	Telephones, electric	Jan. 11, 1887
355,687	Egan, C. E	Telephones, magnetic	Jan. 11, 1887
355,714	Reinmann, A. L	Lights, incandescent	Jan. 11, 1887
355,729	Stevens, W. L	Regulators	Jan. 11, 1887
355,734	Waite, H. E	Telephones, magnetic	Jan. 11, 1887
355,738	Williamson, D	Magneto-electric	Jan. 11, 1887
355,739	Wilmarth, F. H	Cut-outs, electro-magnetic	Jan. 11, 1887
355,741	Wittenberg, C	Telephones, systems	Jan. 11, 1887
355,742	Wittenberg, C	Recorders	Jan. 11, 1887
355,743	Wittenberg, C	do	Jan. 11, 1887
355,744	Wittenberg, C	do	Jan. 11, 1887
355,745	Wittenberg, C	do	Jan. 11, 1887
355,746	Wittenberg, C	do	Jan. 11, 1887
355,753	Bardonnaut, P. E	Conductors	Jan. 11, 1887
355,771	Linville, J. H	Motors	Jan. 11, 1887
355,791	Seiler, P	Annunciators	Jan. 11, 1887
355,793	Siebel, J. E	Alarms	Jan. 11, 1887
355,798	Sutton, G. D	Conductors, underground	Jan. 11, 1887
355,815	Ghegan, J. J	Alarms	Jan. 11, 1887
355,820	Himmer, V	Clocks	Jan. 11, 1887
355,838	Pratt, H. P. and McPherson, L. O	Telephones, electric	Jan. 11, 1887
355,843	Sloan, E. C	Conductors, lead-covered	Jan. 11, 1887
355,844	Sloan, E. C	do	Jan. 11, 1887
355,858	Brainard, F. R	Circuit-closers	Jan. 11, 1887
355,860	Brown, R. G	Telegraphy, multiplex	Jan. 11, 1887
355,867	Denison, R. A	Conductors, underground	Jan. 11, 1887
355,871	Gordon, J. E. H	Meters	Jan. 11, 1887
355,892	Sternberg, G. M	Thermostats	Jan. 11, 1887
355,893	Sternberg, G. M	do	Jan. 11, 1887
355,894	Sternberg, G. M	do	Jan. 11, 1887
355,895	Sternberg, G. M. and Lehmann, A. A	do	Jan. 11, 1887
355,928	Gould, C. C. and Smith, W	Telephones, systems	Jan. 11, 1887
355,929	Gould, C. C. and Smith, W	do	Jan. 11, 1887
355,952	Stut, J. C. H	Telephones, electric	Jan. 11, 1887
356,008	Paige, A. E	Cut-outs, electro-magnetic	Jan. 11, 1887
356,019	Voelker, W. L	Lights, incandescent	Jan. 11, 1887
356,020	Voelker, W. L	Lights, filaments and carbons	Jan. 11, 1887
356,024	Bain, F	Thermostats	Jan. 11, 1887
356,034	Freeman, J. P	Telephones, electric	Jan. 11, 1887
356,038	Gould, C. C	Cut-outs, mechanical	Jan. 11, 1887
356,040	Hitchcock, C. A. and Burnley, W	Telephones, systems	Jan. 11, 1887
356,041	Howell, J. W	Galvanometers	Jan. 11, 1887
356,042	Howell, J. W	do	Jan. 11, 1887
356,069	Himmer, V	Clocks	Jan. 11, 1887
356,070	Himmer, V	Recorders	Jan. 11, 1887
356,151	Munsie, J. F	Conductors, underground	Jan. 18, 1887
356,152	Munsie, J. F	do	Jan. 18, 1887
356,153	Munsie, J. F	do	Jan. 18, 1887
356,156	Patterson, W. R	Conductors	Jan. 18, 1887
356,197	Gilliland, E. T	Telephones, magnetic	Jan. 18, 1887
356,199	Holzer, W	Cut-outs, thermal	Jan. 18, 1887
356,206	Patterson, W. R	Conductors, lead-covered	Jan. 18, 1887
356,207	Patterson, W. R	Conductors	Jan. 18, 1887
356,211	Scribner, C. E	Lights, arc, gravity feed, frictional	Jan. 18, 1887
356,261	Pearce, J. E	Batteries, galvanic	Jan. 18, 1887
356,270	Bredow, F	Lights, systems and appliances	Jan. 18, 1887
356,282	Harding, A	Lights, arc, positive feed	Jan. 18, 1887



No.	NAME.	CLASS.	DATE.
356,300	Beale, A. M. A	Telephones, electric	Jan. 18, 1887
356,360	Gee, W	Thermostats	Jan. 18, 1887
356,390	Barral de Montaud, C	Batteries, secondary	Jan. 18, 1887
356,403	Gould, C. C	Telegraph-poles	Jan. 18, 1887
356,418	Nickum, G. S	Telegraphy, transmitters	Jan. 18, 1887
356,425	Scribner, C. E	Telephones, systems	Jan. 18, 1887
356,426	Scribner, C. E	do	Jan. 18, 1887
356,427	Scribner, C. E	do	Jan. 18, 1887
356,448	Clark, J. H	Alarms	Jan. 25, 1887
356,496	Otis, N. P	Applications, tools and machines	Jan. 25, 1887
356,531	Grimes, C. H	Lightning-rods	Jan. 25, 1887
356,576	Diehl, P	Motors	Jan. 25, 1887
356,579	Erhardt, H	Locomotion	Jan. 25, 1887
356,580	Fairbanks, H. H. and Coughlin, W. H	Lights, systems and appliances	Jan. 25, 1887
356,594	Lord, G. W	Telephones, mechanical	Jan. 25, 1887
356,605	Smith, M. M. and Jones, F. P	Alarms	Jan. 25, 1887
356,614	Bunnell, J. A	Lights, systems and appliances	Jan. 25, 1887
356,629	Ezell, J. S	do	Jan. 25, 1887
356,632	Fuchs, J	Cut-outs, mechanical	Jan. 25, 1887
356,640	Hickley, A. S	Electrolysis	Jan. 25, 1887
356,667	Short, S. H	Magneto-electric	Jan. 25, 1887
356,688	Johnson, E. H	Telephones, details	Jan. 25, 1887
356,689	Johnson, E. H	Telephones, electric	Jan. 25, 1887
356,727	Perry, N. W	Batteries, galvanic	Jan. 25, 1887
356,756	Farnham, W. H. and Askew, C. B	Alarms	Feb. 1, 1887
356,771	Leber, L. H. and Currens, M. C	do	Feb. 1, 1887
356,786	Pyle, H. L	Lights, arc, positive feed	Feb. 1, 1887
356,787	Pyle, H. L	Lights, systems and appliances	Feb. 1, 1887
356,788	Pyle, H. L	Lights, arc	Feb. 1, 1887
356,792	Ricketson, J. C	Indicators	Feb. 1, 1887
356,795	Slattery, M. M. M	Lights, incandescent	Feb. 1, 1887
356,796	Slattery, M. M. M	Batteries, galvanic	Feb. 1, 1887
356,805	Stonitsch, J. and Sweet, W. F	Indicators	Feb. 1, 1887
356,834	Griscom, W. W	Motors	Feb. 1, 1887
356,850	Peachey, J. D	Annunciators	Feb. 1, 1887
356,859	Warner, E. P	Telephones, systems	Feb. 1, 1887
356,875	Harkness, W	Telegraphy, fire, alarms and extinguishers	Feb. 1, 1887
356,877	Hohenstein, C. J	Telephones, radiophones	Feb. 1, 1887
356,878	Honston, E. J	Motors	Feb. 1, 1887
356,879	Lister, J. T	Lights, filaments and carbons	Feb. 1, 1887
356,902	Thomson, E	Magneto-electric	Feb. 1, 1887
356,903	Thomson, E	Lights, arc	Feb. 1, 1887
356,940	Hunt, W. M	Applications, tools and machines	Feb. 1, 1887
356,963	Ries, E. E	Car-brakes	Feb. 1, 1887
356,964	Ries, E. E	do	Feb. 1, 1887
356,981	Brooks, D	Conductors, underground	Feb. 1, 1887
357,038	Robertson, J. H	Telegraphy, automatic	Feb. 1, 1887
357,039	Robertson, J. H	do	Feb. 1, 1887
357,050	Vail, J. H	Lightning-rods	Feb. 1, 1887
357,051	Watkins, F. C	Telephones, systems	Feb. 1, 1887
357,052	Watkins, F. C	Annunciators	Feb. 1, 1887
357,053	Watkins, F. C	Telephones, systems	Feb. 1, 1887
357,054	Watkins, F. C	Telephones, electric	Feb. 1, 1887
357,055	Weil, L	Valve-controllers	Feb. 1, 1887
357,056	Weil, L	do	Feb. 1, 1887
357,109	Westinghouse, G., jr	Railway signals	Feb. 1, 1887
357,115	Buckingham, C. L	Regulators	Feb. 1, 1887
357,134	Stoekwell, J. O	Telephones, electric	Feb. 1, 1887
357,165	Capers, J. S	Connectors	Feb. 1, 1887
357,190	Farnham, W. H. and Askew, C. B	Alarms, burglar	Feb. 8, 1887
357,193	Gavillet, W. and Martaresche, L	Applications, tools and machines	Feb. 8, 1887
357,280	Harvey, W. B	Alarms	Feb. 8, 1887
357,293	Shallenberger, O. B	Regulators	Feb. 8, 1887
357,295	Westinghouse, G., jr., and Schmid, A	Magneto-electric	Feb. 8, 1887
357,296	Westinghouse, G., jr	Railway signals	Feb. 8, 1887
357,310	Etter, J. R	Clocks	Feb. 8, 1887
357,337	Rosenblatt, S	Telephones, supports	Feb. 8, 1887
357,359	Barney, W. C	Telephones, electric	Feb. 8, 1887
357,360	Barney, W. C	Telephones, magnetic	Feb. 8, 1887
357,372	Crowdus, W. A	Telephones, systems	Feb. 8, 1887
357,374	Darling, W. H. and Boek, L., jr	Motors	Feb. 8, 1887
357,385	Hochhausen, W	Lights, incandescent	Feb. 8, 1887
357,416	Schleicher, G	Alarms, burglar	Feb. 8, 1887
357,452	Blake, F	Telephones, electric	Feb. 8, 1887
357,516	Atwater, J. E	Locomotion	Feb. 8, 1887
357,538	Scribner, C. E	Telephones, switch-boards	Feb. 8, 1887
357,539	Seely, J. A	Telephones, systems	Feb. 8, 1887

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357,540	Seely, J. A	Telephones, systems	Feb. 8, 1887
357,550	Chase, S. A	Batteries, galvanic	Feb. 8, 1887
357,572	Burton, W. L	Heaters	Feb. 15, 1887
357,576	Card, G. F	Car-brakes	Feb. 15, 1887
357,589	Fontaine, A. S	Telephones, systems	Feb. 15, 1887
357,627	Prescott, G. B., jr	Batteries, secondary, applications	Feb. 15, 1887
357,642	Tasker, W. H. and Jones, T. J	Batteries, galvanic	Feb. 15, 1887
357,646	Upward, A. R. and Pridham, C. W	do	Feb. 15, 1887
357,647	Vander Weyde, P. H	Medical and surgical, body-wear	Feb. 15, 1887
357,659	Fitz-Gerald, D. G	Electrolysis	Feb. 15, 1887
357,682	McDonough, J. W. and Eldred, H. H	Telephones, switches	Feb. 15, 1887
357,687	Patterson, C. A	Telephones, systems	Feb. 15, 1887
357,705	Easton, J. W	Magneto-electric	Feb. 15, 1887
357,726	Mehren, J. F	Telephones, systems	Feb. 15, 1887
357,760	Card, G. F	Car-brakes	Feb. 15, 1887
357,774	Klán, V. and Spurny, F	Lights, arc	Feb. 15, 1887
357,789	Rutherford, R. C	Relays and sounders	Feb. 15, 1887
357,815	Carr, E. E	Alarms, burglar	Feb. 15, 1887
357,821	Ford, W. S	Telephones, switch-boards	Feb. 15, 1887
357,838	Lee, C. E	Thermostats	Feb. 15, 1887
357,865	Short, S. H	Railway signals	Feb. 15, 1887
357,873	Starr, E. T	Batteries, secondary, applications	Feb. 15, 1887
357,881	Wells, E. D	Railway signals	Feb. 15, 1887
357,885	Zoeller, T. J	Telegraphy, fire	Feb. 15, 1887
357,922	Hand, W., Wright, M. C., and Pocock, F. A	Railway signals	Feb. 15, 1887
357,960	Horne, W. L	Telegraphy, fire	Feb. 15, 1887
357,967	Radford, C. M	Telephones, mechanical	Feb. 15, 1887
357,976	Card, G. F	Car-brakes	Feb. 15, 1887
357,995	Howard, J. H	Telephones, mechanical	Feb. 15, 1887
358,002	Trauernicht, T. H	Applications, general	Feb. 15, 1887
358,019	Curtis, C. G. and Crocker, F. B	Batteries, galvanic	Feb. 22, 1887
358,030	Frishmuth, W	do	Feb. 22, 1887
358,031	Frishmuth, W	do	Feb. 22, 1887
358,032	Goldsmith, J. S	Recorders	Feb. 22, 1887
358,043	Knight, W. H	Locomotion	Feb. 22, 1887
358,053	Michales, M. A. and Michaels, A	Applications, general	Feb. 22, 1887
358,087	Tasker, W. H. and Jones, T. J	Batteries, galvanic	Feb. 22, 1887
358,092	Van Gestel, J. T	Batteries, secondary	Feb. 22, 1887
358,095	Williams, B	Conductors, underground	Feb. 22, 1887
358,109	Davis, A. G	Circuit-closers	Feb. 22, 1887
358,111	Fitz-Gerald, D. G	Batteries, secondary	Feb. 22, 1887
358,116	Gustin, A. J	Applications, general	Feb. 22, 1887
358,120	Jones, T. J	Batteries, secondary	Feb. 22, 1887
358,133	Vivó y Graells, F	Regulators	Feb. 22, 1887
358,140	Barrett, J. A	Conductors	Feb. 22, 1887
358,145	Crowdus, W. A. and Sutton, H. M	Lights, arc, gravity feed, gear	Feb. 22, 1887
358,161	McVay, W	Alarms	Feb. 22, 1887
358,250	Barrett, J. A	Annunciators	Feb. 22, 1887
358,309	Warde, G. H	Lights, systems and appliances	Feb. 22, 1887
358,314	Wheeler, S. S. and Curtis, C. G	Batteries, galvanic	Feb. 22, 1887
358,317	Wiley, G. L	Telephones, systems	Feb. 22, 1887
358,336	Copeland, E. T	Telegraphy, fire, alarms and extinguishers	Feb. 22, 1887
358,340	Eiekemeyer, R	Magneto-electric	Feb. 22, 1887
358,341	Elieson, C. P	Batteries, secondary	Feb. 22, 1887
358,343	Gaiser, C. A	Electro-magnets	Feb. 22, 1887
358,346	Gordon, J. E. H	Systems of distribution	Feb. 22, 1887
358,350	Haight, H. J	Thermostats	Feb. 22, 1887
358,357	Jones, J. S	Telephones, mechanical	Feb. 22, 1887
358,360	Krepps, V. A	Circuit-closers	Feb. 22, 1887
358,379	Brown, R. G	Telegraphy, printing	Feb. 22, 1887
358,386	Crocker, F. B. and Curtis, C. G	Batteries, galvanic	Feb. 22, 1887
358,393	Guest, J. H	Telegraphy, fire, alarms and extinguishers	Feb. 22, 1887
358,415	Slattery, M. M. M	Induction-coils	Feb. 22, 1887
358,417	Summers, L. P	Magnetic locks and bolts	Feb. 22, 1887
358,464	Perreux-Lloyd, J. B	Batteries, galvanic	Mar. 1, 1887
358,492	Slattery, M. M. M	Lights, incandescent	Mar. 1, 1887
358,493	Slattery, M. M. M	Regulators	Mar. 1, 1887
358,511	Upton, E. W	Thermostats	Mar. 1, 1887
358,512	Van Depoele, C. J	Locomotion	Mar. 1, 1887
358,518	Westinghouse, G., jr	Connectors	Mar. 1, 1887
358,519	Westinghouse, G., jr	Railway signals	Mar. 1, 1887
358,520	Westinghouse, G., jr	Valve-controllers	Mar. 1, 1887
358,521	Westinghouse, G., jr	do	Mar. 1, 1887
358,592	Clarke, C. L	Connectors	Mar. 1, 1887
358,599	Edison, T. A	Lights, incandescent	Mar. 1, 1887
358,600	Edison, T. A	do	Mar. 1, 1887
358,609	Harris, R. L	Locomotion	Mar. 1, 1887



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358,614	Johnson, J. E	Circuit-closers	Mar. 1, 1887
358,645	Bundy, W. L	Recorders	Mar. 1, 1887
358,655	Frik, L	Alarms	Mar. 1, 1887
358,682	Long, M. W	Motors	Mar. 1, 1887
358,691	Page, R. C. and Soden, F. H	Valve-controllers	Mar. 1, 1887
358,694	Pearce, F. and Jones, J	Telegraphy, fire	Mar. 1, 1887
358,713	Westinghouse, G., jr	Valve-controllers	Mar. 1, 1887
358,753	Rogers, J. H	Motors	Mar. 1, 1887
358,775	Graves, F. B	Thermostats	Mar. 1, 1887
358,778	Holt, G. D. and McGinty, W. T	Conductors, underground	Mar. 1, 1887
358,793	Slattery, M. M. M	Induction-coils	Mar. 1, 1887
358,810	Gustin, A. J	Applications, tools and machines	Mar. 1, 1887
358,812	House, W. D	Telephones, electric	Mar. 1, 1887
358,854	Haight, H. J	Thermostats	Mar. 8, 1887
358,864	Lyon, F. G	Telegraphy, fire	Mar. 8, 1887
358,866	Massey, A. P	Car-brakes	Mar. 8, 1887
358,890	Selden, C	Telegraphy, circuits and systems	Mar. 8, 1887
358,896	Smith, A. B	Annunciators	Mar. 8, 1887
358,910	Wildt, E. A	Bells	Mar. 8, 1887
358,924	Erling, P. R	Applications, tools and machines	Mar. 8, 1887
358,939	Palmer, N. F	Telegraphy, circuits and systems	Mar. 8, 1887
358,940	Palmer, N. F	Telephones, electric	Mar. 8, 1887
358,941	Palmer, N. F	do	Mar. 8, 1887
358,949	Stern, W. A	Alarms	Mar. 8, 1887
358,961	Convers, A. E	Separators	Mar. 8, 1887
358,975	Henzel, G. L	Magnetic locks and bolts	Mar. 8, 1887
359,040	Tisdale, C. D	Railway signals	Mar. 8, 1887
359,050	Bentley, E. M	Locomotion	Mar. 8, 1887
359,051	Blodgett, A. D	Annunciators	Mar. 8, 1887
359,053	Bosworth, C. B	Igniting devices	Mar. 8, 1887
359,055	Brewer, H. J	Batteries, galvanic	Mar. 8, 1887
359,063	Desruelles, L. A. W	do	Mar. 8, 1887
359,067	Fearon, C	Railway signals	Mar. 8, 1887
359,072	Griscom, W. W	Batteries, secondary	Mar. 8, 1887
359,085	Mansfield, G. W	Separators	Mar. 8, 1887
359,101	Shallenberger, O. B	Regulators	Mar. 8, 1887
359,165	Mathieu, J. A	Electrolysis	Mar. 8, 1887
359,188	Tabony, J. H	Telephones, electric	Mar. 8, 1887
359,205	Curtis, C. G., Wheeler, S. S., and Crocker, F. B.	Electro-magnets, machines for winding	Mar. 8, 1887
359,210	Haight, H. J	Thermostats	Mar. 8, 1887
359,215	Lord, G. W	Telephones, mechanical	Mar. 8, 1887
359,216	Lord, G. W	do	Mar. 8, 1887
359,217	Lord, G. W	do	Mar. 8, 1887
359,218	Lord, G. W	do	Mar. 8, 1887
359,221	McDill, H. C. and Gaston, J. E	Lights, arc, gravity feed, frictional	Mar. 8, 1887
359,243	Davis, G. W	Lights, systems and appliances	Mar. 15, 1887
359,243	Farbaky, S. and Schenek, S	Batteries, secondary	Mar. 15, 1887
359,260	Keffer, F. and McDowell, J. A	Circuit-closers	Mar. 15, 1887
359,303	Westinghouse, G., jr	Applications, tools and machines	Mar. 15, 1887
359,306	Wittenberg, C	Telephones, systems	Mar. 15, 1887
359,307	Wittenberg, C	Recorders	Mar. 15, 1887
359,308	Wittenberg, C	do	Mar. 15, 1887
359,309	Wood, F. B	Bells	Mar. 15, 1887
359,313	Bennett, H. M	Steering and propulsion	Mar. 15, 1887
359,323	Seel, C	Lights, incandescent	Mar. 15, 1887
359,333	Wheeler, A. D	Recorders	Mar. 15, 1887
359,346	Capers, J. S	do	Mar. 15, 1887
359,352	Gardner, E. V	Applications, general	Mar. 15, 1887
359,356	Hitchcock, C. A	Telephones, switches	Mar. 15, 1887
359,371	Van Nort, S. P	Railway signals	Mar. 15, 1887
359,392	Johnson, C. W	Thermostats	Mar. 15, 1887
359,414	Wasserman, G	Applications, tools and machines	Mar. 15, 1887
359,429	Clark, E. P	Motors	Mar. 15, 1887
359,492	Balloch, C	Telephones, details	Mar. 15, 1887
359,506	Goodwillie, D. H	Medical and surgical, electrodes	Mar. 15, 1887
359,512	Long, M. W	Railway signals	Mar. 15, 1887
359,540	McLaughlin, J. F	Locomotion	Mar. 15, 1887
359,552	Bassett, N. C	Applications, tools and machines	Mar. 15, 1887
359,575	Mehren, J. F. and Carroll, W	Telephones, systems	Mar. 15, 1887
359,581	Toulmin, M	Alarms	Mar. 15, 1887
359,593	Carpenter, J. F	Car-brakes	Mar. 22, 1887
359,607	Heysinger, I. W	Locomotion	Mar. 22, 1887
359,619	Macrae, R	Galvanometers	Mar. 22, 1887
359,622	Murray, W	Telegraph-poles	Mar. 22, 1887
359,673	Grovesteen, M. W	Valve-controllers	Mar. 22, 1887
359,686	Noyes, B. J	Telegraphy, fire	Mar. 22, 1887



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359,687	Noyes, B. J	Telegraphy, fire	Mar. 22, 1887
359,688	Noyes, B. J	do	Mar. 22, 1887
359,689	Noyes, B. J	do	Mar. 22, 1887
359,690	Pollak, K	Batteries, galvanic	Mar. 22, 1887
359,691	Reed, H. T	Lights, systems and appliances	Mar. 22, 1887
359,713	Cheney, F. A	do	Mar. 22, 1887
359,726	Johnson, E. H	Conductors	Mar. 22, 1887
359,738	Pennock, G. B	Conductors, underground	Mar. 22, 1887
359,739	Powers, J. A	Lights, systems and appliances	Mar. 22, 1887
359,747	Tabony, J. H	Telephones, systems	Mar. 22, 1887
359,748	Tesla, N	Magneto-electric	Mar. 22, 1887
359,752	Wetmore, J. A	Applications, tools and machines	Mar. 22, 1887
359,770	Buckingham, C. L	Regulators	Mar. 22, 1887
359,799	Mayrhofer, C. A	Clocks	Mar. 22, 1887
359,805	McLaughlin, J. F	Regulators	Mar. 22, 1887
359,812	Pennie, H	Insulators	Mar. 22, 1887
359,816	Sawyer, W. H	Conductors, underground	Mar. 22, 1887
359,823	Taussig, S.	Telegraphy, fire	Mar. 22, 1887
359,824	Taussig, S.	do	Mar. 22, 1887
359,825	Thompson, C. M	Conductors	Mar. 22, 1887
359,835	Beattie, J., jr	Batteries, galvanic	Mar. 22, 1887
359,876	Meserole, A. V	Batteries, secondary	Mar. 22, 1887
359,877	Meserole, A. V	do	Mar. 22, 1887
359,894	Sheehy, R. J	Magneto-electric	Mar. 22, 1887
359,900	Starr, E. T	Batteries, secondary, applications	Mar. 22, 1887
359,901	Starr, E. T	do	Mar. 22, 1887
359,902	Steffens, M. J	Applications, general	Mar. 22, 1887
359,916	Brady, T. H	Lights, systems and appliances	Mar. 22, 1887
359,934	Main, W	Batteries, secondary	Mar. 22, 1887
359,940	Patee, T. H. and Lawshe, S. R.	Lightning-rods	Mar. 22, 1887
359,982	Plume, F. C	Connectors	Mar. 22, 1887
359,984	Swain, C. R	Annunciators	Mar. 22, 1887
359,990	Barrett, J. A	Telegraphy, railway-car	Mar. 29, 1887
359,999	Colby, E. J	Recorders	Mar. 29, 1887
360,002	Downing, W. W. and Upham, A. B.	Lights, systems and appliances	Mar. 29, 1887
360,024	Kookogey, W. P.	Batteries, galvanic	Mar. 29, 1887
360,025	Lambdin, C	Bells	Mar. 29, 1887
360,030	Leipner, W. A	Magneto-electric	Mar. 29, 1887
360,040	Nichols, G. P. and Coombs, M., jr	Lights, systems and appliances	Mar. 29, 1887
360,060	Sperry, E. A	Car-brakes	Mar. 29, 1887
360,068	Waite, H. E	Telephones, magnetic	Mar. 29, 1887
360,077	Wright, G. H	Railway signals	Mar. 29, 1887
360,078	Abell, J. J. and Gifford, C. B.	Clocks	Mar. 29, 1887
360,092	Harvey, W. B	do	Mar. 29, 1887
360,122	Thomson, E	Systems of distribution	Mar. 29, 1887
360,123	Thomson, E	Cut-outs, electro-magnetic	Mar. 29, 1887
360,124	Thomson, E	do	Mar. 29, 1887
360,125	Thomson, E	Systems of distribution	Mar. 29, 1887
360,127	Wallis, F. B	Medical and surgical, body-wear	Mar. 29, 1887
360,144	Cowles, E. H. and A. H	Heaters	Mar. 29, 1887
360,151	Hanson, L	Lights, arc, gravity feed, gear	Mar. 29, 1887
360,158	Jablochhoff, P	Batteries, galvanic	Mar. 29, 1887
360,175	Scott, J. McM	Railway signals	Mar. 29, 1887
360,179	Solano, R	Car-brakes	Mar. 29, 1887
360,198	Bláthy, O. T	Induction-coils	Mar. 29, 1887
360,216	Fisher, F. E	Motors	Mar. 29, 1887
360,223	Johnson, E. H	Thermostats	Mar. 29, 1887
360,244	Perkins, C. G	Lights, sockets and keys	Mar. 29, 1887
360,252	Smith, W. C	Telegraphy, fire	Mar. 29, 1887
360,254	Tregoning, J	Lights, arc, gravity feed, gear	Mar. 29, 1887
360,258	Walter, H. E. and Batchelor, C.	Magneto-electric	Mar. 29, 1887
360,259	Walter, H. E. and Batchelor, C.	do	Mar. 29, 1887
360,266	Barrett, J. A	Annunciators	Mar. 29, 1887
360,308	Knudson, A. A	Relays and sounders	Mar. 29, 1887
360,316	Loesner, H. and De Bravura, M	Conductors, underground	Mar. 29, 1887
360,354	Locke, W. F	Insulators	Mar. 29, 1887
360,362	Radford, C. M	Telephones, mechanical	Mar. 29, 1887
360,375	Conant, T. P	Batteries, secondary	Mar. 29, 1887
360,377	Crowdus, W. A. and Sutton, H. M.	Lights, arc, gravity feed, gear	Mar. 29, 1887
360,381	Fitch, F. K	Indicators	Mar. 29, 1887
360,405	Bain, F	Applications, tools and machines	Apr. 5, 1887
360,429	Goodwillie, D. H	Medical and surgical, electrodes	Apr. 5, 1887
360,447	Kunkle, J. C	Annunciators	Apr. 5, 1887
360,448	Kunkle, J. C	do	Apr. 5, 1887
360,492	Van Rysselberghe, F.	Telegraphy, circuits and systems	Apr. 5, 1887
360,517	Emley, J. E	Applications, general	Apr. 5, 1887
360,528	Jones, F. W	Telegraphy, quadruplex	Apr. 5, 1887

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360,532	Kookogey, W. P.	Batteries, galvanic	Apr. 5, 1887
360,538	Powers, J. A.	Lights, systems and appliances	Apr. 5, 1887
360,567	Dunham, T. H.	Conductors	Apr. 5, 1887
360,570	Farnham, I. H.	Cut-outs, thermal	Apr. 5, 1887
360,626	Tabony, J. H.	Telephones, magnetic	Apr. 5, 1887
360,638	Westinghouse, G., jr.	Railway signals	Apr. 5, 1887
360,647	Bennett, J. B. and Samuels, F. W.	Applications, general	Apr. 5, 1887
360,655	Carpenter, B. F.	Conductors, underground	Apr. 5, 1887
360,660	Coleman, E. G.	Bells	Apr. 5, 1887
360,662	Cooke, C. F.	Lights, arc, gravity feed, gear	Apr. 5, 1887
360,672	Fertig, O. S.	Connectors	Apr. 5, 1887
360,692	Herzberg, A. and Almqvist, A. W.	Recorders	Apr. 5, 1887
360,696	Holtzer, C. W.	Igniting devices	Apr. 5, 1887
360,773	Hosford, E.	Medical and surgical, baths	Apr. 5, 1887
360,823	Singer, W. F.	Thermostats	Apr. 5, 1887
360,824	Singer, W. F.	Telegraphy, fire	Apr. 5, 1887
360,842	Atkins, C. H.	Separators	Apr. 12, 1887
360,844	Barnard, W. T.	Telegraphy, reed	Apr. 12, 1887
360,852	Cassel, H. R.	Electrolysis	Apr. 12, 1887
360,853	Cassel, H. R.	do	Apr. 12, 1887
360,862	Delany, P. B.	Clocks	Apr. 12, 1887
360,903	Parcelle, A. L.	do	Apr. 12, 1887
360,925	Solano, R.	Conductors	Apr. 12, 1887
360,934	Waite, H. E.	Induction-coils	Apr. 12, 1887
360,968	Martin, M.	Telegraphy, fire	Apr. 12, 1887
360,980	Whittier, T. P.	Alarms	Apr. 12, 1887
360,986	Beale, A. M. A.	Telegraphy, multiplex	Apr. 12, 1887
360,987	Beale, A. M. A.	do	Apr. 12, 1887
360,988	Beale, A. M. A.	do	Apr. 12, 1887
360,994	Burke, C. G.	Telegraphy, printing	Apr. 12, 1887
360,995	Burke, C. G.	do	Apr. 12, 1887
361,004	Fitch, D. H.	Batteries, galvanic	Apr. 12, 1887
361,020	Mosher, S. E.	Telephones, calls	Apr. 12, 1887
361,047	Burnley, W.	Telephones, electric	Apr. 12, 1887
361,086	Scheidt, C.	Conductors, underground	Apr. 12, 1887
361,089	Selden, C.	Car-brakes	Apr. 12, 1887
361,090	Selden, C.	do	Apr. 12, 1887
361,115	Baxter, W., jr.	Motors	Apr. 12, 1887
361,116	Baxter, W., jr.	Regulators	Apr. 12, 1887
361,117	Baxter, W., jr.	Motors	Apr. 12, 1887
361,124	Bonta, J. W.	Telephones, electric	Apr. 12, 1887
361,146	Doremus, W. D.	Indicators	Apr. 12, 1887
361,217	Flad, H.	Conductors	Apr. 12, 1887
361,220	Haish, J.	Lights, systems and appliances	Apr. 12, 1887
361,248	Winton, H. D.	Applications, general	Apr. 12, 1887
361,249	Worms, E. and Balé, J.	do	Apr. 12, 1887
361,265	Clokey, J. M.	Conductors	Apr. 19, 1887
361,270	Dickerson, E. N., jr.	Thermostats	Apr. 19, 1887
361,273	Easton, J. W.	Magneto-electric	Apr. 19, 1887
361,274	Easton, J. W.	Motors	Apr. 19, 1887
361,275	Enyart, E. S.	Indicators	Apr. 19, 1887
361,276	MacFarlane, J.	Conductors, underground	Apr. 19, 1887
361,302	Lord, G. W.	Telephones, mechanical	Apr. 19, 1887
361,319	Paxson, I.	Conductors, underground	Apr. 19, 1887
361,347	Crowell, C. T.	do	Apr. 19, 1887
361,356	Gardanier, G. W.	Telegraphy, duplex	Apr. 19, 1887
361,364	Larish, J. W. and Maver, W., jr.	do	Apr. 19, 1887
361,365	Larish, J. W.	Telephones, calls	Apr. 19, 1887
361,455	Settle, M.	Lights, incandescent	Apr. 19, 1887
361,481	Bell, C. S.	Telephones, magnetic	Apr. 19, 1887
361,495	Diall, M. N.	Lights, systems and appliances	Apr. 19, 1887
361,498	Farmer, M. G.	Telegraphy, circuits and systems	Apr. 19, 1887
361,499	Garl, M.	Telephones, mechanical	Apr. 19, 1887
361,511	Harford, A. B.	Annunciators	Apr. 19, 1887
361,520	Hill, C. F.	Lightning-rods	Apr. 19, 1887
361,587	Gross, M. H.	Induction-coils	Apr. 19, 1887
361,663	Wiese, G. A.	Lights, arc, gravity feed, gear	Apr. 19, 1887
361,676	Daft, L.	Locomotion	Apr. 26, 1887
361,678	Doehring, C. F. W. and Hoffman, C. G.	Recorders	Apr. 26, 1887
361,705	Litchfield, I. W.	Conductors	Apr. 26, 1887
361,712	Perkins, C. G.	Regulators	Apr. 26, 1887
361,713	Perkins, C. G.	Cut-outs, thermal	Apr. 26, 1887
361,730	Stewart, S. B.	Telegraphy, railway-car	Apr. 26, 1887
361,731	Stewart, S. B.	Conductors	Apr. 26, 1887
361,734	Van Rysselberghe, F.	Telegraphy, circuits and systems	Apr. 26, 1887
361,737	Wilkins, G. A.	Magneto-electric, hand-machines	Apr. 26, 1887
361,770	Main, W.	Magneto-electric	Apr. 26, 1887



No.	NAME.	CLASS.	DATE.
361,778	Reynolds, G. H.	Applications, tools and machines	Apr. 26, 1887
361,779	Reynolds, G. H.	do	Apr. 26, 1887
361,780	Reynolds, G. H.	do	Apr. 26, 1887
361,782	Robb, J. T.	Lights, systems and appliances	Apr. 26, 1887
361,794	Walker, S. F.	Batteries, galvanic	Apr. 26, 1887
361,797	Weaver, S.	Telegraphy, circuits and systems	Apr. 26, 1887
361,829	Marvin, H. N.	Motors	Apr. 26, 1887
361,843	Sperry, E. A.	Transmission of power	Apr. 26, 1887
361,844	Sperry, E. A.	Cut-outs, electro-magnetic	Apr. 26, 1887
361,896	Schmid, A.	Magneto-electric	Apr. 26, 1887
361,901	Smith, J. E.	Telegraphy, fire	Apr. 26, 1887
361,968	Olsen, J. L. W.	Alarms	Apr. 26, 1887
361,973	Warner, E. P.	Magneto-electric	Apr. 26, 1887
362,005	Hazazer, E. W.	Bells	Apr. 26, 1887
362,010	Jewill, G. J.	Alarms, burglar	Apr. 26, 1887
362,022	Liepmann, H.	Electrolysis	Apr. 26, 1887
362,053	Ball, C. E.	Applications, tools and machines	May 3, 1887
362,062	Cole, J. W.	Lightning-rods	May 3, 1887
362,064	Daniels, E. O.	do	May 3, 1887
362,076	Gilson, S. H.	Conductors	May 3, 1887
362,099	Maloney, J. A.	Telephones, details	May 3, 1887
362,100	Maloney, J. A.	do	May 3, 1887
362,108	Perkins, C. G.	Conductors	May 3, 1887
362,115	Rosenblatt, S.	Telephones, supports	May 3, 1887
362,128	Van Choate, S. F.	Lights, incandescent	May 3, 1887
362,133	Whitney, E. R.	Applications, general	May 3, 1887
362,135	Wilson, J. C.	Electro-magnets	May 3, 1887
362,192	Thaxter, G. E.	Circuit-closers	May 3, 1887
362,212	Guion, R. L.	Thermostats	May 3, 1887
362,213	Guion, R. L.	do	May 3, 1887
362,216	Ilyne-Berline, S.	Bells	May 3, 1887
362,217	Kellogg, M. G.	Telephones, systems	May 3, 1887
362,289	Lakin, J. A.	Lights, arc, gravity feed, gear	May 3, 1887
362,310	Parsons, H. W.	Dental instruments	May 3, 1887
362,312	Pieper, H., fils.	Lights, arc, positive feed	May 3, 1887
362,322	Sheehy, R. J.	Meters	May 3, 1887
362,323	Short, S. H. and Nesmith, J. W.	Locomotion	May 3, 1887
362,376	Gould, C. C. and Smith, W.	Conductors	May 3, 1887
362,399	Schlotterbeck, A. G.	Lights, systems and appliances	May 3, 1887
362,409	Wicks, P. J.	Railway signals	May 3, 1887
362,441	Grätzel, R.	Electrolysis	May 3, 1887
362,451	Lange, P.	Galvanometers	May 3, 1887
362,469	Swan, A.	Cut-outs, mechanical	May 3, 1887
362,477	Coughlin, J. J.	Telegraphy, fire	May 3, 1887
362,510	Higham, E. T. and D.	Regulators	May 10, 1887
362,531	Partz, A. F. W.	Batteries, galvanic	May 10, 1887
362,584	Misell, D.	do	May 10, 1887
362,639	Ludlow, W. I.	Batteries, secondary	May 10, 1887
362,640	Ludlow, W. I.	do	May 10, 1887
362,652	O'Connell, J. J.	Telephones, systems	May 10, 1887
362,682	Van Sands, H.	Insulators	May 10, 1887
362,739	Ghegan, J. J.	Alarms, burglar	May 10, 1887
362,751	Lagerman, A.	Applications, tools and machines	May 10, 1887
362,798	Van Depoele, C. J.	Motors	May 10, 1887
362,801	Westcott, F.	Lightning-rods	May 10, 1887
362,847	Lugo, O.	Batteries, galvanic	May 10, 1887
362,852	Noble, C. M.	Lights, arc, positive feed	May 10, 1887
362,859	Stearns, J. M., jr.	Rheostats	May 10, 1887
362,872	Brooks, D.	Conductors	May 10, 1887
362,902	Pond, C. H.	Clocks	May 10, 1887
362,957	Haight, H. J.	Thermostats	May 17, 1887
363,039	Abbe, R. W. F.	Recorders	May 17, 1887
363,079	Pease, W. M.	Valve-controllers	May 17, 1887
363,106	Wynne, F.	Electro-magnets, machines for winding	May 17, 1887
363,126	Easton, J. W.	Magneto-electric	May 17, 1887
363,127	Easton, J. W.	do	May 17, 1887
363,128	Easton, J. W.	do	May 17, 1887
363,129	Easton, J. W.	do	May 17, 1887
363,158	McLaughlin, J. F.	Telegraphy, dial	May 17, 1887
363,182	Tatham, J.	Conductors, lead-covered	May 17, 1887
363,183	Thomson, E.	Cut-outs, mechanical	May 17, 1887
363,184	Thomson, E.	Regulators	May 17, 1887
363,185	Thomson, E.	Motors	May 17, 1887
363,186	Thomson, E.	do	May 17, 1887
363,188	Van Ryselberghe, F.	Telegraphy, circuits and systems	May 17, 1887
363,215	Dickinson, S. C.	Clocks	May 17, 1887
363,249	Lauhoff, J.	Telephones, mechanical	May 17, 1887



No.	NAME.	CLASS.	DATE.
363,250	McElroy, W. J. and Nicholson, J. D.	Locomotion	May 17, 1887
363,290	Freeman, A. H.	Alarms, burglar	May 17, 1887
363,304	Stanley, L. T.	Induction-coils	May 17, 1887
363,320	Benardos, N. de and Olszewski, S.	Heaters	May 17, 1887
363,332	Hammer, W. J.	Lights, systems and appliances	May 17, 1887
363,333	Hammer, W. J.	Galvanometers	May 17, 1887
363,334	Hammer, W. J.	Cut-outs, mechanical	May 17, 1887
363,440	Warner, C. D.	Clocks	May 24, 1887
363,449	Carty, J. J.	Telephones, electric	May 24, 1887
363,463	Hollerith, H.	Car-brakes	May 24, 1887
363,464	Hollerith, H.	do	May 24, 1887
363,466	Hunter, R. M.	Motors	May 24, 1887
363,498	Zeiner, J.	Clocks	May 24, 1887
363,500	Anderson, C. G.	Lights, incandescent	May 24, 1887
363,550	Sedgwick, F.	Applications, general	May 24, 1887
363,559	Stanley, W., jr.	Lights, sockets and keys	May 24, 1887
363,562	Tichenor, A. C.	Batteries, galvanic	May 24, 1887
363,567	Wightman, M. J. and Lemp, H.	Lightning-arresters	May 24, 1887
363,568	Wightman, M. J. and Lemp, H.	Lights, sockets and keys	May 24, 1887
363,574	Ball, C. M. and McTighe, T. J.	Circuit-closers	May 24, 1887
363,592	Crawford, C.	Applications, tools and machines	May 24, 1887
363,593	Clamer, F. J.	Applications, general	May 24, 1887
363,611	Denison, J. F.	Lights, arc, positive feed	May 24, 1887
363,623	Flowers, M. I.	Magnetic locks and bolts	May 24, 1887
363,644	Jacobs, H. E.	Thermostats	May 24, 1887
363,645	Jacobs, H. E.	do	May 24, 1887
363,669	Paine, H. M.	Motors	May 24, 1887
363,702	Vance, S. B. H.	Lights, systems and appliances	May 24, 1887
363,851	Ritchie, J.	Induction-coils	May 31, 1887
363,880	Bailey, M. and Warner, J.	Batteries, galvanic	May 31, 1887
363,886	Dunlap, W. W.	Medical and surgical, body-wear	May 31, 1887
363,909	Pauthonier, C.	Lights, filaments and carbons	May 31, 1887
363,969	Selden, C.	Telegraphy, circuits and systems	May 31, 1887
364,009	Gedge, B. H.	Railway signals	May 31, 1887
364,031	Maxwell, W.	Lights, filaments and carbons	May 31, 1887
364,086	Card, G. F.	Motors	May 31, 1887
364,133	Richardson, J. D.	Telephones, systems	May 31, 1887
364,177	Kitson, G. L.	Conductors, lead-covered	May 31, 1887
364,178	Kitson, G. L.	do	May 31, 1887
364,204	Armstrong, J. H.	Railway signals	June 7, 1887
364,221	Curry, J.	Lights, systems and appliances	June 7, 1887
364,235	Fisher, I.	Igniting devices	June 7, 1887
364,271	Maiche, L.	Telegraphy, automatic	June 7, 1887
364,299	Rogers, C. D.	Telegraphy, fire, alarms and extinguishers	June 7, 1887
364,343	Hall, G. W.	Telegraphy, printing	June 7, 1887
364,344	Hard, J. R.	Batteries, galvanic	June 7, 1887
364,353	Kampfe, R.	Applications, tools and machines	June 7, 1887
364,356	Leggo, W. A.	Telegraphy, circuits and systems	June 7, 1887
364,372	Rae, J. H.	Applications, general	June 7, 1887
364,429	Mejer, G. E.	Clocks	June 7, 1887
364,444	Seiler, P.	Annunciators	June 7, 1887
364,471	Bock, L., jr.	Telegraphy, automatic	June 7, 1887
364,472	Bock, L., jr.	Telephones, electric	June 7, 1887
364,475	Bonta, J. W.	do	June 7, 1887
364,518	Johnson, W. S.	Thermostats	June 7, 1887
364,525	Lanston, T.	Telegraphy, printing	June 7, 1887
364,558	Wamsley, W. F. and McIntosh, T.	Connectors	June 7, 1887
364,559	Wamsley, W. F.	do	June 7, 1887
364,605	Schoonmaker, J. H.	Lightning-rods	June 7, 1887
364,619	Woods, G. T.	Telegraphy, relays and sounders	June 7, 1887
364,639	Francken, V. and Bender, E.	Batteries, galvanic	June 14, 1887
364,656	Kookogey, W. P.	do	June 14, 1887
364,660	Meserole, A. V.	do	June 14, 1887
364,721	McEvoy, E.	Cut-outs, thermal	June 14, 1887
364,760	Holtzer, C. W.	Igniting devices	June 14, 1887
364,764	Lehy, G. B.	Alarms, burglar	June 14, 1887
364,893	Brown, R. G.	Telegraphy, printing	June 14, 1887
364,894	Brown, R. G.	do	June 14, 1887
364,940	Kassler, W. J.	Alarms	June 14, 1887
364,975	Townley, L. P. and Washburn, W. J.	Medical and surgical, body-wear	June 14, 1887
364,994	Degenhardt, F. E.	Conductors	June 14, 1887
365,018	Otis, C. G.	Applications, tools and machines	June 14, 1887
365,023	Ramel, A. and Dean, W. W.	Clocks	June 14, 1887
365,040	Bassett, G. B.	Valve-controllers	June 21, 1887
365,059	Essick, S. V.	Telegraphy, printing	June 21, 1887
365,089	Morrison, A. E.	Thermostats	June 21, 1887
365,103	Selden, C.	Telegraphy, reed	June 21, 1887

No.	NAME.	CLASS.	DATE.
365,116	Bollmann, L -----	Induction-coils -----	June 21, 1887
365,159	Wightman, M. J. and Lemp, H -----	Cut-outs, mechanical -----	June 21, 1887
365,189	Lemp, H. and Wightman, M. J -----	do -----	June 21, 1887
365,216	Winckler, E. and Heilmaun, J. J -----	Applications, tools and machines -----	June 21, 1887
365,339	Hamilton, B. F -----	Locomotion -----	June 21, 1887
365,340	Hamilton, B. F -----	do -----	June 21, 1887
365,341	Hamilton, B. F -----	do -----	June 21, 1887
365,345	Long, M. W -----	Railway signals -----	June 21, 1887
365,351	Smith, J -----	Lights, sockets and keys -----	June 21, 1887
365,353	Smith, W. R. and Washburn, A. L -----	Recorders -----	June 21, 1887
365,359	Germain, P -----	Batteries, galvanic -----	June 21, 1887
365,365	Cole, F. W -----	Telegraphy, fire -----	June 28, 1887
365,384	Jenkins, P. O -----	Lights, incandescent -----	June 28, 1887
365,414	Thomson, F -----	Lights, systems and appliances -----	June 28, 1887
365,438	Jacobs, H. E -----	Thermostats -----	June 28, 1887
365,460	Buell, C. E -----	Batteries, secondary, applications -----	June 28, 1887
365,465	Edison, T. A -----	Regulators -----	June 28, 1887
365,493	Stecher, M -----	Alarms -----	June 28, 1887
365,495	Thompson, E. P -----	Lights, incandescent -----	June 28, 1887
365,498	Abbott, G. L -----	Lights, systems and appliances -----	June 28, 1887
365,499	Anderson, C. G -----	Lights, incandescent -----	June 28, 1887
365,509	Edison, T. A -----	Lights, filaments and carbons -----	June 28, 1887
365,525	Lauhoff, J -----	Telephones, mechanical -----	June 28, 1887
365,553	Thomson, E -----	Lights, arc -----	June 28, 1887
365,585	Davis, D., jr -----	Cut-outs, mechanical -----	June 28, 1887
365,600	Jacobs, H. E -----	Thermostats -----	June 28, 1887
365,604	Ketchum, O. W -----	Applications, tools and machines -----	June 28, 1887
365,639	Shaffer, C. H -----	Telegraphy, fire, alarms and extinguishers -----	June 28, 1887
365,705	Scott, G. B -----	Telegraphy, printing -----	June 28, 1887
365,726	Bulen, G. F -----	Telegraphy, fire -----	June 28, 1887

REISSUES.

10,768	Johnson, W. S -----	Thermostats. (Reissue of 331,406). -----	Sept. 28, 1886
10,791	Kells, C. E., jr -----	Do. (Reissue of 322,612) -----	Dec. 21, 1886
10,802	Johnson, W. S -----	Do. (Reissue of 342,018) -----	Jan. 25, 1887
10,816	Snowberger, J -----	Magneto-electric. (Reissue of 338,197) -----	Mar. 8, 1887
10,838	Curtiss, R. M -----	Applications, tools and machines. (Reissue of 314,167.) -----	May 31, 1887
10,846	Williams, J. B -----	Conductors. (Reissue of 335,495) -----	June 21, 1887

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## APPENDIX No. VI.

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### PART III.

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CONSISTING OF A

ALPHABETICAL INDEX OF ALL PATENTS

RELATING TO

ELECTRICITY

Issued from July 1, 1886, to June 30, 1887, inclusive, giving names of Inventors, numbers and dates of Patents, and the sub-class to which each belongs.

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# ALPHABETICAL INDEX

## OF

# PATENTS RELATING TO ELECTRICITY

FROM JULY 1, 1886, TO JUNE 30, 1887.

No.	NAME.	CLASS.	DATE.
363,039	Abbe, R. W. F	Recorders	May 17, 1887
365,498	Abbott, G. L	Lights, systems and appliances	June 28, 1887
351,239	Abell, J. J. and Gifford, C. B.	Clocks	Oct. 19, 1886
360,078	Abell, J. J. and Gifford, C. B.	do	Mar. 29, 1887
354,996	Absterdam, J	Telegraphy, circuits and systems	Dec. 28, 1886
354,758	Adams, J. S	Lights, systems and appliances	Dec. 21, 1886
354,759	Adams, J. S	do	Dec. 21, 1886
354,760	Adams, J. S	do	Dec. 21, 1886
351,148	Adams, T. E	Magneto-electric	Oct. 19, 1886
351,351	Adams, T. E	Regulators	Oct. 26, 1886
351,611	Alexander, R.	Conductors	Oct. 26, 1886
354,761	Anderson, A	Telegraphy, fire	Dec. 21, 1886
363,500	Anderson, C. G	Lights, incandescent	May 24, 1887
365,499	Anderson, C. G	do	June 28, 1887
349,472	Anderson, J. C	Conductors, underground	Sept. 21, 1886
348,871	Andrews, W. S	Cut-outs, thermal	Aug. 31, 1886
364,204	Armstrong, J. H	Railway signals	June 7, 1887
355,431	Arthur, W	Relays and sounders	Jan. 4, 1887
360,842	Atkins, C. H	Separators	Apr. 12, 1887
357,516	Atwater, J. B	Locomotion	Feb. 8, 1887
348,880	Averell, W. W	do	Sept. 7, 1886
353,840	Bailey, J. S	Clocks	Dec. 7, 1886
363,880	Bailey, M. and Warner, J	Batteries, galvanic	May 31, 1887
354,881	Bain, F	Applications, tools and machines	Dec. 28, 1886
356,024	Bain, F	Thermostats	Jan. 11, 1887
360,405	Bain, F	Applications, tools and machines	Apr. 5, 1887
353,346	Baldwin, C. E	Medical and surgical, body-wear	Nov. 30, 1886
352,796	Baldwin, C. W	Applications, tools and machines	Nov. 16, 1886
362,053	Ball, C. E	do	May 3, 1887
346,245	Ball, C. M	Lights, filaments and carbons	July 27, 1886
363,574	Ball, C. M. and McTighe, T. J	Circuit-closers	May 24, 1887
359,492	Balloch, C	Telephones, details	Mar. 15, 1887
355,753	Bardonnaut, P. E	Conductors	Jan. 11, 1887
360,844	Barnard, W. T	Telegraphy, reed	Apr. 12, 1887
357,359	Barney, W. C	Telephones, electric	Feb. 8, 1887
357,360	Barney, W. C	Telephones, magnetic	Feb. 8, 1887
356,390	Barral de Montaud, C	Batteries, secondary	Jan. 18, 1887
350,715	Barrett, J. A	Conductors, anti-inductive	Oct. 12, 1886
358,140	Barrett, J. A	Conductors	Feb. 22, 1887
358,250	Barrett, J. A	Annunciators	Feb. 22, 1887
359,990	Barrett, J. A	Telegraphy, railway-car	Mar. 29, 1887
360,266	Barrett, J. A	Annunciators	Mar. 29, 1887
349,422	Bartlett, C. O	Separators	Sept. 21, 1886
365,040	Bassett, G. B	Valve-controllers	June 21, 1887
359,552	Bassett, N. C	Applications, tools and machines	Mar. 15, 1887
361,115	Baxter, W., jr	Motors	Apr. 12, 1887
361,116	Baxter, W., jr	Regulators	Apr. 12, 1887
361,117	Baxter, W., jr	Motors	Apr. 12, 1887
349,380	Bazin, E	Batteries, galvanic	Sept. 21, 1886
356,300	Beale, A. M. A	Telephones, electric	Jan. 18, 1887
360,986	Beale, A. M. A	Telegraphy, multiplex	Apr. 12, 1887
360,987	Beale, A. M. A	do	Apr. 12, 1887
360,988	Beale, A. M. A	do	Apr. 12, 1887
346,527	Beattie, J., jr	Motors	Aug. 3, 1886
346,528	Beattie, J., jr	Induction-coils	Aug. 3, 1886
359,835	Beattie, J., jr	Batteries, galvanic	Mar. 22, 1887
348,822	Belk, J. C	Conductors	Sept. 7, 1886
346,708	Bell, C. A	Telephones, systems	Aug. 3, 1886
361,481	Bell, C. S	Telephones, magnetic	Apr. 19, 1887

No.	NAME.	CLASS.	DATE.
363,320	Benardos, N. de and Olszewski, S	Heaters	May 17, 1887
359,313	Bennett, H. M	Steering and propulsion	Mar. 15, 1887
360,647	Bennett, J. B. and Samuels, F. W	Applications, general	Apr. 5, 1887
359,050	Bentley, E. M	Locomotion	Mar. 8, 1887
344,938	Bergmann, S	Telephones, electric	July 6, 1886
347,023	Berliner, E	Batteries, secondary	Aug. 10, 1886
351,569	Berliner, E	Telephones, electric	Oct. 26, 1886
349,780	Bernsee, C. D	Recorders	Sept. 28, 1886
349,975	Bickford, J. H	Telephones, systems, automatic	Sept. 28, 1886
349,976	Bickford, J. H	Telephones, calls	Sept. 28, 1886
355,055	Bickford, J. H	Telegraphy, railway-car	Dec. 28, 1886
351,485	Biggs, J. M	Keys	Oct. 26, 1886
354,965	Black, C. S. and Pfister, P. C	Thermostats	Dec. 28, 1886
357,452	Blake, F	Telephones, electric	Feb. 8, 1887
360,198	Bláthy, O. T	Induction-coils	Mar. 29, 1887
359,051	Blodgett, A. D	Annunciators	Mar. 8, 1887
345,025	Blodgett, F. M	Medical and surgical, body-wear	July 6, 1886
364,471	Bock, L., jr	Telegraphy, automatic	June 7, 1887
364,472	Bock, L., jr	Telephones, electric	June 7, 1887
348,949	Böhling, J	Indicators	Sept. 14, 1886
354,530	Boissier, H. R	Lights, arc, gravity feed, gear	Dec. 21, 1886
365,116	Bollmann, L	Induction-coils	June 21, 1887
352,176	Bonta, J. W	Telephones, electric	Nov. 9, 1886
352,177	Bonta, J. W	do	Nov. 9, 1886
352,178	Bonta, J. W	do	Nov. 9, 1886
352,179	Bonta, J. W	do	Nov. 9, 1886
361,124	Bonta, J. W	do	Apr. 12, 1887
364,475	Bonta, J. W	do	June 7, 1887
348,883	Bossard, A	Magneto-electric	Sept. 7, 1886
349,563	Bossard, A	Motors	Sept. 21, 1886
359,053	Bosworth, C. B	Igniting devices	Mar. 8, 1887
351,488	Bowyer, J. M	Circuit-closers	Oct. 26, 1886
353,915	Bradley, C. S	Galvanometers	Dec. 7, 1886
355,129	Brady, J	Lights, arc	Dec. 28, 1886
359,916	Brady, T. H	Lights, systems and appliances	Mar. 22, 1887
355,858	Brainard, F. R	Circuit-closers	Jan. 11, 1887
345,762	Brambel, G	Telephones, electric	July 20, 1886
356,270	Bredow, F	Lights, systems and appliances	Jan. 18, 1887
346,395	Brewer, H. J	Batteries, galvanic	July 27, 1886
359,055	Brewer, H. J	do	Mar. 8, 1887
347,318	Brewer, J. P. and Smith, W. C	Telegraphy, fire	Aug. 17, 1886
355,434	Broich, J. and Luebke, A. E. G	Clocks	Jan. 4, 1887
348,542	Bronson, L. G	Lights, arc	Sept. 7, 1886
356,981	Brooks, D	Conductors, underground	Feb. 1, 1887
362,872	Brooks, D	Conductors	May 10, 1887
352,852	Brooks, D., jr	do	Nov. 16, 1886
345,880	Brown, A. G	Lights, sockets and keys	July 20, 1886
346,020	Brown, A. G	do	July 20, 1886
347,319	Brown, G. W	Telegraphy, fire	Aug. 17, 1886
347,767	Brown, H. P	Lights, sockets and keys	Aug. 24, 1886
352,035	Brown, H. P	Cut-outs, electro-magnetic	Nov. 2, 1886
347,766	Brown, H. P. and F. H	Rheostats	Aug. 24, 1886
345,209	Brown, R. G	Telegraphy, reed	July 6, 1886
353,120	Brown, R. G	Insulators	Nov. 23, 1886
355,860	Brown, R. G	Telegraphy, multiplex	Jan. 11, 1887
358,379	Brown, R. G	Telegraphy, printing	Feb. 22, 1887
364,893	Brown, R. G	do	June 14, 1887
364,894	Brown, R. G	do	June 14, 1887
347,025	Brush, C. F	Lights, systems and appliances	Aug. 10, 1886
351,961	Brush, C. F	Regulators	Nov. 2, 1886
350,411	Buck, W	Circuit-closers	Oct. 5, 1886
350,615	Buckingham, C. L	Telegraphy, printing	Oct. 12, 1886
350,616	Buckingham, C. L	do	Oct. 12, 1886
350,617	Buckingham, C. L	do	Oct. 12, 1886
357,115	Buckingham, C. L	Regulators	Feb. 1, 1887
359,770	Buckingham, C. L	do	Mar. 22, 1887
347,768	Buell, C. E	Batteries, secondary, applications	Aug. 24, 1886
353,248	Buell, C. E	Batteries, secondary	Nov. 23, 1886
353,349	Buell, C. E	Lights, systems and appliances	Nov. 30, 1886
365,460	Buell, C. E	Batteries, secondary, applications	June 28, 1887
352,442	Bulen, G. F	Thermostats	Nov. 9, 1886
365,726	Bulen, G. F	Telegraphy, fire	June 28, 1887
358,645	Bundy, W. L	Recorders	Mar. 1, 1887
356,614	Bunnell, J. A	Lights, systems and appliances	Jan. 25, 1887
360,994	Burke, C. G	Telegraphy, printing	Apr. 12, 1887
360,995	Burke, C. G	do	Apr. 12, 1887
353,536	Burnley, W	Telephones, electric	Nov. 30, 1886



No.	NAME.	CLASS.	DATE.
361,047	Burnley, W.	Telephones, electric	Apr. 12, 1887
346,423	Burton, G. D.	Connectors	July 27, 1886
354,460	Burton, G. D.	Telegraphy, railway-car	Dec. 14, 1886
354,827	Burton, G. D.	do	Dec. 21, 1886
357,572	Burton, W. L.	Heaters	Feb. 15, 1887
352,445	Butler, J. W.	Conductors	Nov. 9, 1886
352,504	Butler, J. W.	Conductors, underground	Nov. 9, 1886
347,866	Butz, A. M.	Thermostats	Aug. 24, 1886
345,212	Byllesby, H. M.	Systems of distribution	July 6, 1886
354,853	Cabell, S. G.	Applications, general	Dec. 21, 1886
346,840	Campbell, E.	Conductors, underground	Aug. 3, 1886
357,165	Capers, J. S.	Connectors	Feb. 1, 1887
359,346	Capers, J. S.	Recorders	Mar. 15, 1887
357,576	Card, G. F.	Car-brakes	Feb. 15, 1887
357,760	Card, G. F.	do	Feb. 15, 1887
357,976	Card, G. F.	do	Feb. 15, 1887
364,086	Card, G. F.	Motors	May 31, 1887
344,940	Carhart, E.	Bells	July 6, 1886
360,655	Carpenter, B. F.	Conductors, underground	Apr. 5, 1887
355,380	Carpenter, G. A.	Connectors	Jan. 4, 1887
354,302	Carpenter, G. E. and Tucker, A. F.	Telegraphy, railway-car	Dec. 14, 1886
359,593	Carpenter, J. F.	Car-brakes	Mar. 22, 1887
357,815	Carr, E. E.	Alarms, burglar	Feb. 15, 1887
348,512	Carty, J. J.	Anti-induction devices	Aug. 31, 1886
353,350	Carty, J. J.	Telephones, systems	Nov. 30, 1886
363,449	Carty, J. J.	Telephones, electric	May 24, 1887
360,552	Cassel, H. R.	Electrolysis	Apr. 12, 1887
360,853	Cassel, H. R.	do	Apr. 12, 1887
346,465	Chandler, T. P., jr.	Locomotion	Aug. 3, 1886
346,724	Chandler, T. P., jr.	do	Aug. 3, 1886
355,382	Chapman, W. H. and Donahue, B. C.	Indicators	Jan. 4, 1887
355,059	Charles, J.	Medical and surgical, body-wear	Dec. 28, 1886
346,355	Chase, J. W.	Telegraphy, fire	July 27, 1886
350,804	Chase, S. A.	do	Oct. 12, 1886
357,550	Chase, S. A.	Batteries, galvanic	Feb. 8, 1887
359,713	Cheney, F. A.	Lights, systems and appliances	Mar. 22, 1887
345,884	Chinnoek, C. E.	Locomotion	July 20, 1886
355,383	Chinnoek, C. E.	Telephones, calls	Jan. 4, 1887
355,384	Chinnoek, C. E.	Alarms	Jan. 4, 1887
363,593	Clamer, F. J.	Applications, general	May 24, 1887
359,429	Clark, E. P.	Motors	Mar. 15, 1887
353,123	Clark, J. H.	Applications, tools and machines	Nov. 23, 1886
356,448	Clark, J. H.	Alarms	Jan. 25, 1887
347,571	Clarke, C. L.	Indicators	Aug. 17, 1886
347,572	Clarke, C. L.	Clocks	Aug. 17, 1886
353,592	Clarke, C. L.	Connectors	Mar. 1, 1887
361,265	Clokey, J. M.	Conductors	Apr. 19, 1887
353,414	Coerper, C.	Magneto-electric	Nov. 30, 1886
359,999	Colby, E. J.	Recorders	Mar. 29, 1887
365,365	Cole, F. W.	Telegraphy, fire	June 28, 1887
362,062	Cole, J. W.	Lightning-rods	May 3, 1887
351,250	Cole, W. R.	Telephones, electric	Oct. 19, 1886
352,735	Cole, W. R.	Telephones, magnetic	Nov. 16, 1886
352,806	Cole, W. R.	Telephones, electric	Nov. 16, 1886
360,660	Coleman, E. G.	Bells	Apr. 5, 1887
352,119	Collins, W. H.	Telephones, electric	Nov. 9, 1886
360,375	Conant, T. P.	Batteries, secondary	Mar. 29, 1887
353,288	Conklin, J. I., jr.	Relays and sounders	Nov. 30, 1886
358,961	Convers, A. E.	Separators	Mar. 8, 1887
360,662	Cooke, C. F.	Lights, arc, gravity feed, gear	Apr. 5, 1887
358,336	Copeland, E. T.	Telegraphy, fire, alarms and extinguishers	Feb. 22, 1887
362,477	Coughlin, J. J.	Telegraphy, fire	May 3, 1887
360,144	Cowles, E. H. and A. H.	Heaters	Mar. 29, 1887
353,541	Cowper, E. A.	Telegraphy, automatic	Nov. 30, 1886
350,293	Cox, H. B.	Connectors	Oct. 5, 1886
350,294	Cox, H. B.	Batteries, galvanic	Oct. 5, 1886
352,043	Cox, H. B.	Circuit-closers	Nov. 2, 1886
352,044	Cox, H. B.	Valve-controllers	Nov. 2, 1886
363,592	Crawford, C.	Applications, tools and machines	May 24, 1887
355,063	Crocker, F. B.	Conductors, underground	Dec. 28, 1886
358,336	Crocker, F. B. and Curtis, C. G.	Batteries, galvanic	Feb. 22, 1887
346,532	Crockett, C. H. and Allen, C. C.	Bells	Aug. 3, 1886
346,533	Crockett, C. H. and Allen, C. C.	Igniting devices	Aug. 3, 1886
357,372	Crowdus, W. A.	Telephones, systems	Feb. 8, 1887
358,145	Crowdus, W. A. and Sutton, H. M.	Lights, arc, gravity feed, gear	Feb. 22, 1887
360,377	Crowdus, W. A. and Sutton, H. M.	do	Mar. 29, 1887
361,347	Crowell, C. T.	Conductors, underground	Apr. 19, 1887

No.	NAME.	CLASS.	DATE.
346,645	Cruikshank, G. M	Conductors	Aug. 3, 1886
354,505	Cull, W. J. and Scattergood, C. F	Annunciators	Dec. 14, 1886
364,221	Curry, J	Lights, systems and appliances	June 7, 1887
354,538	Curtis, C. G. and Crocker, F. B	Magneto-electric	Dec. 21, 1886
358,019	Curtis, C. G. and Crocker, F. B	Batteries, galvanic	Feb. 22, 1887
354,539	Curtis, C. G. and Wheeler, S. S	Magneto-electric	Dec. 21, 1886
359,205	Curtis, C. G., Wheeler, S. S. and Crocker, F. B.	Electro-magnets, machines for winding	Mar. 8, 1887
346,430	Cutten, E. B	Lights, arc	July 27, 1886
350,975	Cutten, E. B	do	Oct. 19, 1886
361,676	Daft, L	Locomotion	Apr. 26, 1887
362,064	Daniels, E. O	Lightning-rods	May 3, 1887
347,924	Dann, J. E. and Lapp, J	Telephones, electric	Aug. 24, 1886
357,374	Darling, W. H. and Bock, L., jr	Motors	Feb. 8, 1887
349,926	Daves, W	Circuit-closers	Sept. 28, 1886
349,927	Daves, W	Railway signals	Sept. 28, 1886
358,109	Davis, A. G	Circuit-closers	Feb. 22, 1887
347,325	Davis, A. W. S	Telephones, mechanical	Aug. 17, 1886
365,585	Davis, D., jr	Cut-outs, mechanical	June 28, 1887
359,243	Davis, G. W	Lights, systems and appliances	Mar. 15, 1887
353,403	Deckard, L. L	Applications, general	Nov. 30, 1886
364,994	Degenhardt, F. E	Conductors	June 14, 1887
347,231	De Khotinsky, A	Batteries, secondary	Aug. 10, 1886
360,862	Delany, P. E	Clocks	Apr. 12, 1887
351,314	Delmage, W. A	Applications, tools and machines	Oct. 19, 1886
347,164	De Lodyguine, A	Lights, filaments and carbons	Aug. 10, 1886
363,611	Denison, J. F	Lights, arc, positive feed	May 24, 1887
355,867	Denison, R. A	Conductors, underground	Jan. 11, 1887
348,885	Deprez, M. and Carpentier, J.	Regulators	Aug. 31, 1886
351,746	Derrick, F. E. and Brott, S. C	Alarms	Nov. 2, 1886
344,946	De Solomé, G. F	Batteries, galvanic	July 6, 1886
344,947	De Solomé, G. F	do	July 6, 1886
344,948	De Solomé, G. F	Circuit-closers	July 6, 1886
350,296	Desruelles, L. A. W	Batteries, galvanic	Oct. 5, 1886
350,297	Desruelles, L. A. W	do	Oct. 5, 1886
359,063	Desruelles, L. A. W	do	Mar. 8, 1887
345,124	De Virloy, A. L., Commelin, E. and Bailhache, G.	Batteries, secondary	July 6, 1886
361,495	Diall, M. N	Lights, systems and appliances	Apr. 19, 1887
349,572	Dick, R	Lights, filaments and carbons	Sept. 21, 1886
361,270	Dickerson, E. N., jr	Thermostats	Apr. 19, 1887
346,094	Dickinson, S. C	Clocks	July 27, 1886
363,215	Dickinson, S. C	do	May 17, 1887
350,482	Diehl, P	Systems of distribution	Oct. 12, 1886
350,668	Diehl, P	Motors	Oct. 12, 1886
351,167	Diehl, P	Magneto-electric	Oct. 19, 1886
356,576	Diehl, P	Motors	Jan. 25, 1887
361,678	Doehring, C. F. W. and Hoffman, C. G	Recorders	Apr. 26, 1887
350,299	Dolbear, A. E	Telephones, electric	Oct. 5, 1886
355,149	Dolbear, A. E	do	Dec. 28, 1886
361,146	Doremus, W. D	Indicators	Apr. 12, 1887
350,046	Doubleday, H. M. and Lyman, J	Lights, systems and appliances	Sept. 28, 1886
351,099	Dowden, C. H	Annunciators	Oct. 19, 1886
352,861	Dowden, C. H	Alarms, burglar	Nov. 16, 1886
360,002	Downing, W. W. and Upham, A. B	Lights, systems and appliances	Mar. 29, 1887
344,818	Drawbaugh, D	Induction-coils	July 6, 1886
354,541	Drawbaugh, D	Telephones, electric	Dec. 21, 1886
354,542	Drawbaugh, D	do	Dec. 21, 1886
350,621	Drescher, L	Batteries, galvanic	Oct. 12, 1886
352,084	Drescher, L	Induction-coils	Nov. 2, 1886
354,892	Du Bois, J. S	Conductors, underground	Dec. 28, 1886
360,567	Dunham, T. H	Conductors	Apr. 5, 1887
363,886	Dunlap, W. W	Medical and surgical, body-wear	May 31, 1887
346,433	Duplain, F. P	Conductors	July 27, 1886
348,155	Dyer, R. N	Lights, systems and appliances	Aug. 24, 1886
348,896	Eastman, W. H	Telephones, mechanical	Sept. 7, 1886
357,705	Easton, J. W	Magneto-electric	Feb. 15, 1887
361,273	Easton, J. W	do	Apr. 19, 1887
361,274	Easton, J. W	Motors	Apr. 19, 1887
363,126	Easton, J. W	Magneto-electric	May 17, 1887
363,127	Easton, J. W	do	May 17, 1887
363,128	Easton, J. W	do	May 17, 1887
363,129	Easton, J. W	do	May 17, 1887
345,956	Eaton, A. K	Conductors, lead-covered	July 20, 1886
346,902	Edgar, E. F	Locomotion	Aug. 10, 1886
354,111	Edgerton, N. H	Motors	Dec. 14, 1886
347,097	Edison, T. A	Telephones, calls	Aug. 10, 1886



No.	NAME.	CLASS.	DATE.
348,114	Edison, T. A	Telephones, details	Aug. 24, 1886
351,855	Edison, T. A	Lights, incandescent	Nov. 2, 1886
351,856	Edison, T. A	do	Nov. 2, 1886
353,783	Edison, T. A	do	Dec. 7, 1886
354,310	Edison, T. A	Lights, filaments and carbons	Dec. 14, 1886
358,599	Edison, T. A	Lights, incandescent	Mar. 1, 1887
358,600	Edison, T. A	do	Mar. 1, 1887
365,465	Edison, T. A	Regulators	June 28, 1887
365,509	Edison, T. A	Lights, filaments and carbons	June 28, 1887
350,234	Edison, T. A. and Gilliland, E. T	Telegraphy, railway-car	Oct. 5, 1886
350,235	Edison, T. A. and Gilliland, E. T	do	Oct. 5, 1886
355,443	Edwards, H. F	Lights, systems and appliances	Jan. 4, 1887
355,685	Egan, C. E	Telephones, magnetic	Jan. 11, 1887
355,686	Egan, C. E	Telephones, electric	Jan. 11, 1887
355,687	Egan, C. E	Telephones, magnetic	Jan. 11, 1887
346,846	Ehrlich, H.	Telephones, electric	Aug. 3, 1886
354,402	Eichmeyer, J. C	Telephones, magnetic	Dec. 14, 1886
351,902	Eickemeyer, R	Magneto-electric	Nov. 2, 1886
351,903	Eickemeyer, R	do	Nov. 2, 1886
351,904	Eickemeyer, R	do	Nov. 2, 1886
351,905	Eickemeyer, R	Telephones, magnetic	Nov. 2, 1886
351,906	Eickemeyer, R	Magneto-electric	Nov. 2, 1886
351,907	Eickemeyer, R	do	Nov. 2, 1886
352,234	Eickemeyer, R	do	Nov. 9, 1886
358,340	Eickemeyer, R	do	Feb. 22, 1887
358,341	Elieson, C. P	Batteries, secondary	Feb. 22, 1887
360,517	Emley, J. E	Applications, general	Apr. 5, 1887
346,031	Emmner, J., jr	Telephones, magnetic	July 20, 1886
352,086	Ennis, H. J	Indicators	Nov. 2, 1886
361,275	Enyart, E. S	do	Apr. 19, 1887
346,032	Erhard, T	Batteries, galvanic	July 20, 1886
356,579	Erhardt, H	Locomotion	Jan. 25, 1887
358,924	Erling, P. R	Applications, tools and machines	Mar. 8, 1887
354,466	Eschwei, C	Cut-outs, thermal	Dec. 14, 1886
365,059	Essick, S. V	Telegraphy, printing	June 21, 1887
357,310	Etter, J. R	Clocks	Feb. 8, 1887
356,620	Ezell, J. S	Lights, systems and appliances	Jan. 25, 1887
356,580	Fairbanks, H. H. and Coughlin, W. H	do	Jan. 25, 1887
349,575	Fairbanks, L. S	Telephones, magnetic	Sept. 21, 1886
348,455	Fairchild, J. M	Cut-outs, mechanical	Aug. 31, 1886
348,456	Fairchild, J. M. and O'Connor, J	do	Aug. 31, 1886
344,957	Farbaky, S. and Schenek, S	Batteries, secondary	July 6, 1886
348,625	Farbaky, S. and Schenek, S	do	Sept. 7, 1886
359,248	Farbaky, S. and Schenek, S	do	Mar. 15, 1887
349,214	Farmer, M. G	Circuits and systems	Sept. 14, 1886
351,256	Farmer, M. G	Electro-magnets	Oct. 19, 1886
351,257	Farmer, M. G	Telephones, relays and repeaters	Oct. 19, 1886
351,258	Farmer, M. G	Telephones, magnetic	Oct. 19, 1886
351,588	Farmer, M. G	Telephones, systems	Oct. 26, 1886
361,498	Farmer, M. G	Circuits and systems	Apr. 19, 1887
360,570	Farnham, J. H	Cut-outs, thermal	Apr. 5, 1887
356,756	Farnham, W. H. and Askew, C. B	Alarms	Feb. 1, 1887
357,190	Farnham, W. H. and Askew, C. B	Alarms, burglar	Feb. 8, 1887
359,067	Fearon, C.	Railway signals	Mar. 8, 1887
345,292	Fenner, R. E	Clocks	July 13, 1886
351,369	Ferguson, A. C	Lights, systems and appliances	Oct. 26, 1886
360,672	Fertig, O. S	Connectors	Apr. 5, 1887
353,128	Field, S. D	Telegraphy, dynamo	Nov. 23, 1886
346,990	Finney, J. R	Locomotion	Aug. 10, 1886
350,728	Fisher, F. E	Motors	Oct. 12, 1886
360,216	Fisher, F. E	do	Mar. 29, 1887
364,235	Fisher, F.	Igniting devices	June 7, 1887
347,029	Fisher, W. C	Magnetic locks and bolts	Aug. 10, 1886
361,004	Fitch, D. H	Batteries, galvanic	Apr. 12, 1887
360,381	Fitch, F. K	Indicators	Mar. 29, 1887
349,788	Fitch, N. T	Insulators	Sept. 28, 1886
357,659	Fitz-Gerald, D. G	Electrolysis	Feb. 15, 1887
358,111	Fitz-Gerald, D. G	Batteries, secondary	Feb. 22, 1887
361,217	Flad, H	Conductors	Apr. 12, 1887
346,847	Flanders, B. S	Telegraphy, fire	Aug. 3, 1886
350,823	Fleckinger, J	Alarms, burglar	Oct. 12, 1886
363,623	Flowers, M. I	Magnetic locks and bolts	May 24, 1887
357,589	Fontaine, A. S	Telephones, systems	Feb. 15, 1887
357,821	Ford, W. S	Telephones, switch-boards	Feb. 15, 1887
350,355	Forsyth, C. S	Lights, systems and appliances	Oct. 5, 1886
344,823	Fottrell, J	Conductors	July 6, 1886
354,508	Fraleigh, S.	Alarms	Dec. 14, 1886



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364,639	Francken, V. and Bender, E	Batteries, galvanic	June 14, 1887
363,290	Freeman, A. H	Alarms, burglar	May 17, 1887
356,034	Freeman, J. P	Telephones, electric	Jan. 11, 1887
352,865	Freir, S. P	Telegraphy, quadruplex	Nov. 16, 1886
358,655	Frik, L	Alarms	Mar. 1, 1887
358,030	Frishmuth, W	Batteries, galvanic	Feb. 22, 1887
358,031	Frishmuth, W	do	Feb. 22, 1887
350,126	Frost, J. W	Telegraphy, fire	Oct. 5, 1886
354,856	Frost, J. W	do	Dec. 21, 1886
350,426	Frost, J. W. and Lake, S. D	do	Oct. 5, 1886
356,632	Fuehs, J	Cut-outs, mechanical	Jan. 25, 1887
358,343	Gaiser, C. A	Electro-magnets	Feb. 22, 1887
349,839	Gannon, P	Telephones, calls	Sept. 28, 1886
349,879	Garcia, D. T	Clocks	Sept. 28, 1886
361,356	Gardanier, G. W	Telegraphy, duplex	Apr. 19, 1887
359,352	Gardner, E. V	Applications, general	Mar. 15, 1887
361,499	Garl, M	Telephones, mechanical	Apr. 19, 1887
348,120	Gaskins, G. H	Telephones, supports	Aug. 24, 1883
351,589	Gaulard, L. and Gibbs, J. D	Systems of distribution	Oct. 26, 1886
357,193	Gavillet, W. and Martaresche, L	Applications, tools and machines	Feb. 8, 1887
352,645	Gaynor, T. F	Telegraphy, fire	Nov. 16, 1886
349,708	Gazaille, H. and Low, H. F	Telegraphy, circuit-closers	Sept. 28, 1886
349,579	Geary, J	Annunciators	Sept. 21, 1886
349,580	Geary, J	do	Sept. 21, 1886
354,858	Geary, J	Alarms, burglar	Dec. 21, 1886
364,009	Gedge, B. H	Railway signals	May 31, 1887
356,360	Gee, W	Thermostats	Jan. 18, 1887
365,359	Germain, P	Batteries, galvanic	June 21, 1887
349,493	Gerry, J. H	Clocks	Sept. 21, 1886
349,494	Gerry, J. H. and Hunter, M. E	do	Sept. 21, 1886
353,489	Gerst, M	Telephones, mechanical	Nov. 30, 1886
347,589	Ghegan, J. J	Valve-controllers	Aug. 17, 1886
352,647	Ghegan, J. J	Indicators	Nov. 16, 1886
355,815	Ghegan, J. J	Alarms	Jan. 11, 1887
362,739	Ghegan, J. J	Alarms, burglar	May 10, 1887
351,319	Gibson, J. H	Railway signals	Oct. 19, 1886
351,973	Gifford, A. T	Lights, arc	Nov. 2, 1886
348,121	Gilbert, G. A	Separators	Aug. 24, 1886
345,838	Giles, C. K. and Fenner, R. E	Applications, general	July 20, 1886
356,197	Gilliland, E. T	Telephones, magnetic	Jan. 18, 1887
362,076	Gilson, S. H	Conductors	May 3, 1887
346,587	Glanville, W. L	Alarms	Aug. 3, 1886
352,407	Glasgow, F	do	Nov. 9, 1886
352,948	Glover, L. S	Telephones, calls	Nov. 23, 1886
348,901	Goldner, W. C	Batteries, galvanic	Sept. 7, 1886
358,032	Goldsmith, J. S	Recorders	Feb. 22, 1887
359,506	Goodwillie, D. H	Medical and surgical, electrodes	Mar. 15, 1887
360,429	Goodwillie, D. H	do	Apr. 5, 1887
354,781	Gordon, J. E. H	Lights, systems and appliances	Dec. 21, 1886
354,782	Gordon, J. E. H	do	Dec. 21, 1886
354,783	Gordon, J. E. H	Systems of distribution	Dec. 21, 1886
355,871	Gordon, J. E. H	Meters	Jan. 11, 1887
358,346	Gordon, J. E. H	Systems of distribution	Feb. 22, 1887
354,469	Gould, C. C	Telephones, systems	Dec. 14, 1886
356,038	Gould, C. C	Cut-outs, mechanical	Jan. 11, 1887
356,403	Gould, C. C	Telegraph-poles	Jan. 18, 1887
355,928	Gould, C. C. and Smith, W	Telephones, systems	Jan. 11, 1887
355,929	Gould, C. C. and Smith, W	do	Jan. 11, 1887
362,376	Gould, C. C. and Smith, W	Conductors	May 3, 1887
344,827	Grant, J	Conductors, underground	July 6, 1886
362,441	Grätzl, R	Electrolysis	May 3, 1887
351,759	Graver, E. S	Railway signals	Nov. 2, 1886
358,775	Graves, F. B	Thermostats	Mar. 1, 1887
347,592	Gray, I	Medical and surgical, body-wear	Aug. 17, 1886
351,697	Greene, F. V	Conductors, underground	Oct. 26, 1886
355,446	Greenfield, E. T	Lights, systems and appliances	Jan. 4, 1887
356,531	Grimes, C. H	Lightning-rods	Jan. 25, 1887
356,834	Griscom, W. W	Motors	Feb. 1, 1887
359,072	Griscom, W. W	Batteries, secondary	Mar. 8, 1887
361,587	Gross, M. H	Induction-coils	Apr. 19, 1887
347,707	Grovesteen, M. W	Valve-controllers	Aug. 17, 1886
359,673	Grovesteen, M. W	do	Mar. 22, 1887
349,710	Guest, J. H	Recorders	Sept. 28, 1886
358,393	Guest, J. H	Telegraphy, fire, alarms and extinguishers	Feb. 22, 1887
354,131	Guion, R. L	Thermostats	Dec. 14, 1886
355,164	Guion, R. L	do	Dec. 28, 1886
362,212	Guion, R. L	do	May 3, 1887

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362,213	Guion, R. L.	Thermostats	May 3, 1887
358,116	Gustin, A. J.	Applications, general	Feb. 22, 1887
358,810	Gustin, A. J.	Applications, tools and machines	Mar. 1, 1887
349,040	Hadden, W.	Railway signals	Sept. 14, 1886
351,913	Haddock, W.	Conductors, underground	Nov. 2, 1886
358,350	Haight, H. J.	Thermostats	Feb. 22, 1887
358,854	Haight, H. J.	do	Mar. 8, 1887
359,210	Haight, H. J.	do	Mar. 8, 1887
362,957	Haight, H. J.	do	May 17, 1887
361,220	Haish, J.	Lights, systems and appliances	Apr. 12, 1887
350,737	Hall, E. L.	Telephones, details	Oct. 12, 1886
364,343	Hall, G. W.	Telegraphy, printing	June 7, 1887
365,339	Hamilton, B. F.	Locomotion	June 21, 1887
365,340	Hamilton, B. F.	do	June 21, 1887
365,341	Hamilton, B. F.	do	June 21, 1887
350,130	Hamlin, E. B.	Telephones, magnetic	Oct. 5, 1886
363,332	Hammer, W. J.	Lights, systems and appliances	May 17, 1887
363,333	Hammer, W. J.	Galvanometers	May 17, 1887
363,334	Hammer, W. J.	Cut-outs, mechanical	May 17, 1887
357,922	Hand, W., Wright, M. C. and Pocoek, F. A.	Railway signals	Feb. 15, 1887
355,165	Hanks, M.	Insulators	Dec. 28, 1886
349,392	Hansell, W.	Magneto-electric	Sept. 21, 1886
360,151	Hanson, L.	Lights, arc, gravity feed, gear	Mar. 29, 1887
348,465	Hard, J. R.	Induction-coils	Aug. 31, 1886
364,344	Hard, J. R.	Batteries, galvanic	June 7, 1887
356,282	Harding, A.	Lights, arc, positive feed	Jan. 18, 1887
361,511	Harford, A. B.	Annunciators	Apr. 19, 1887
356,875	Harkness, W.	Telegraphy, fire, alarms and extinguishers	Feb. 1, 1887
344,962	Harris, R. L.	Locomotion	July 6, 1886
348,008	Harris, R. L.	do	Aug. 24, 1886
358,609	Harris, R. L.	do	Mar. 1, 1887
354,637	Hart, G. W.	Inernstation	Dec. 21, 1886
357,280	Harvey, W. B.	Alarms	Feb. 8, 1887
360,092	Harvey, W. B.	Clocks	Mar. 29, 1887
348,845	Haskins, C. C.	Lights, systems and appliances	Sept. 7, 1886
352,317	Haskins, C. D.	Relays and sounders	Nov. 9, 1886
346,475	Hawken, T.	Insulators	Aug. 3, 1886
353,940	Hayes, H. V.	Telephones, systems	Dec. 7, 1886
362,005	Hazazer, E. W.	Bells	Apr. 26, 1887
352,320	Hedge, J. F., jr.	Clocks	Nov. 9, 1886
351,597	Hieissler, N. C.	Telephones, calls	Oct. 26, 1886
353,305	Henneberg, H. and Lorenz, R. O.	Lights, arc	Nov. 30, 1886
345,845	Henry, J. C.	Locomotion	July 20, 1886
351,599	Henzel, C.	Annunciators	Oct. 26, 1886
351,600	Henzel, C. and Wood, W.	Magnetic locks and bolts	Oct. 26, 1886
358,975	Henzel, G. L.	do	Mar. 8, 1887
350,676	Hering, C.	Regulators	Oct. 12, 1886
350,882	Herrmann, C.	Telegraphy, transmitters	Oct. 12, 1886
347,602	Herron, H. C.	Telegraph-poles	Aug. 17, 1886
349,042	Herz, C.	Telephones, systems	Sept. 14, 1886
349,043	Herz, C.	do	Sept. 14, 1886
360,692	Hertzberg, A. and Almqvist, A. W.	Recorders	Apr. 5, 1887
350,626	Hess, A. T. and Stoltenberg, H. A.	Annunciators	Oct. 12, 1886
347,038	Hey, G. W.	Recorders	Aug. 10, 1886
348,971	Heymann, E. and F. W.	Lights, arc	Sept. 14, 1886
348,972	Heymann, E. and F. W.	do	Sept. 14, 1886
348,973	Heymann, E. and F. W.	do	Sept. 14, 1886
359,607	Heysinger, I. W.	Locomotion	Mar. 22, 1887
354,788	Hickley, A. S.	Lights, incandescent	Dec. 21, 1886
356,640	Hickley, A. S.	Electrolysis	Jan. 25, 1887
362,510	Higham, E. T. and D.	Regulators	May 10, 1887
349,715	Higham, E. T. and D.	Motors	Sept. 28, 1886
349,716	Higham, E. T. and D.	Magneto-electric	Sept. 28, 1886
361,520	Hill, C. F.	Lightning-rods	Apr. 19, 1887
351,601	Hill, W. S.	Lights, arc	Oct. 26, 1886
354,525	Himmer, V.	Clocks	Dec. 14, 1886
355,820	Himmer, V.	do	Jan. 11, 1887
356,069	Himmer, V.	do	Jan. 11, 1887
356,070	Himmer, V.	Recorders	Jan. 11, 1887
351,602	Hirlimann, C. J.	Batteries, galvanic	Oct. 26, 1886
359,356	Hitehcock, C. A.	Telephones, switches	Mar. 15, 1887
356,040	Hitehcock, C. A. and Burnley, W.	Telephones, systems	Jan. 11, 1887
357,385	Hochhansen, W.	Lights, incandescent	Feb. 8, 1887
351,772	Hoffman, J. W.	Alarms, burglar	Nov. 2, 1886
352,324	Hoffman, J. W.	Batteries, galvanic	Nov. 9, 1886
356,877	Hohenstein, C. J.	Telephones, radiophones	Feb. 1, 1887
350,365	Holdsworth, J. W.	Insulators	Oct. 5, 1886



No.	NAME.	CLASS.	DATE.
363,463	Hollerith, H	Car-brakes	May 24, 1887
363,464	Hollerith, H	do	May 24, 1887
358,778	Holt, G. D. and McGinty, W. T	Conductors, underground	Mar. 1, 1887
360,696	Holtzer, C. W	Igniting devices	Apr. 5, 1887
364,760	Holtzer, C. W	do	June 14, 1887
356,199	Holzer, W	Cut-outs, thermal	Jan. 18, 1887
357,960	Horne, W. L	Telegraphy, fire	Feb. 15, 1887
360,773	Hosford, E	Medical and surgical, baths	Apr. 5, 1887
351,699	Houghton, E. J. and Collet, T. M	Regulators	Oct. 26, 1886
354,139	House, H. A. and H. A., jr	Relays and sounders	Dec. 14, 1886
358,812	House, W. D	Telephones, electric	Mar. 1, 1887
356,878	Houston, E. J	Motors	Feb. 1, 1887
357,995	Howard, J. H	Telephones, mechanical	Feb. 15, 1887
348,125	Howell, J. W	Lights, systems and appliances	Aug. 24, 1886
352,691	Howell, J. W	Systems of distribution	Nov. 16, 1886
353,035	Howell, J. W	Magneto-electric	Nov. 23, 1886
356,041	Howell, J. W	Galvanometers	Jan. 11, 1887
356,042	Howell, J. W	do	Jan. 11, 1887
355,611	Howson, H	Connectors	Jan. 4, 1887
350,200	Humes, J. J. R	Applications, tools and machines	Oct. 5, 1886
356,940	Hunt, W. M	do	Feb. 1, 1887
349,650	Hunter, M. E. and Gerry, J. H	Clocks	Sept. 21, 1886
347,937	Hunter, R. M	Regulators	Aug. 24, 1886
363,466	Hunter, R. M	Motors	May 24, 1887
352,754	Hurlbut, S. E	Conductors, underground	Nov. 16, 1886
350,430	Hussey, C. A	Clocks	Oct. 5, 1886
350,431	Hussey, C. A	do	Oct. 5, 1886
350,432	Hussey, C. A	do	Oct. 5, 1886
350,433	Hussey, C. A	do	Oct. 5, 1886
350,434	Hussey, C. A	do	Oct. 5, 1886
350,435	Hussey, C. A	do	Oct. 5, 1886
362,216	Hwyne-Berline, S.	Bells	May 3, 1887
348,562	Irish, J	Applications, tools and machines	Sept. 7, 1886
354,791	Irwin, J. H	Magneto-electric	Dec. 21, 1886
353,789	Ives, E. B.	Telegraphy, railway-car	Dec. 7, 1886
360,158	Jablochkoff, P	Batteries, galvanic	Mar. 29, 1887
363,644	Jacobs, H. E	Thermostats	May 24, 1887
363,645	Jacobs, H. E	do	May 24, 1887
365,438	Jacobs, H. E	do	June 28, 1887
365,600	Jacobs, H. E	do	June 28, 1887
349,797	Jagel, J. M	Conductors, underground	Sept. 28, 1886
352,412	James, De W. C	Railway signals	Nov. 9, 1886
349,222	Jarriant, B.	Batteries, galvanic	Sept. 14, 1886
349,999	Jeffery, G.	Lights, arc	Sept. 28, 1886
350,000	Jenkins, J	Magneto-electric	Sept. 28, 1886
351,834	Jenkis, M. R	Keys	Nov. 2, 1886
365,384	Jenkins, P. O	Lights, incandescent	June 28, 1887
354,639	Jenney, C. D	Lights, arc	Dec. 21, 1886
362,010	Jewill, G. J	Alarms, burglar	Apr. 26, 1887
359,392	Johnson, C. W	Thermostats	Mar. 15, 1887
354,320	Johnson, E. H	Conductors	Dec. 14, 1886
356,688	Johnson, E. H	Telephones, details	Jan. 25, 1887
356,689	Johnson, E. H	Telephones, electric	Jan. 25, 1887
359,726	Johnson, E. H	Conductors	Mar. 22, 1887
360,223	Johnson, E. H	Thermostats	Mar. 29, 1887
358,614	Johnson, J. E	Circuit-closers	Mar. 1, 1887
351,702	Johnson, W. S	Thermostats	Oct. 26, 1886
352,874	Johnson, W. S	do	Nov. 16, 1886
364,518	Johnson, W. S	do	June 7, 1887
360,528	Jones, F. W	Telegraphy, quadruplex	Apr. 5, 1887
353,683	Jones, J. S	Telephones, mechanical	Dec. 7, 1886
353,684	Jones, J. S	do	Dec. 7, 1886
358,357	Jones, J. S	do	Feb. 22, 1887
350,828	Jones, L. B	Electro-magnets, machines for winding	Oct. 12, 1886
350,829	Jones, L. B	Connectors	Oct. 12, 1886
355,172	Jones, R. F	Lights, arc, gravity feed, frictional	Dec. 28, 1886
358,120	Jones, T. J	Batteries, secondary	Feb. 22, 1887
347,300	Julien, E	do	Aug. 10, 1886
352,059	Kaler, W. A	Telegraphy, printing	Nov. 2, 1886
364,353	Kampfe, R	Applications, tools and machines	June 7, 1887
364,940	Kassler, W. J	Alarms	June 14, 1887
349,654	Keegan, V. E	Motors	Sept. 21, 1886
355,400	Keeler, T. B	Lights, systems and appliances	Jan. 4, 1887
359,260	Keffer, F. and McDowell, J. A	Circuit-closers	Mar. 15, 1887
348,977	Keilholtz, P. O	Lights, arc	Sept. 14, 1886
348,978	Keilholtz, P. O	do	Sept. 14, 1886
353,310	Keith, N. S	Magneto-electric	Nov. 30, 1886



No.	NAME.	CLASS.	DATE.
362,217	Kellogg, M. G.	Telephones, systems	May 3, 1887
353,141	Kendall, J. A.	Batteries, galvanic	Nov. 23, 1886
350,003	Kennedy, R.	Magneto-electric	Sept. 28, 1886
348,328	Kenyon, B. L.	Telephones, mechanical	Aug. 31, 1886
345,383	Kessler, H. P. J.	Separators	July 13, 1886
365,604	Ketchum, O. W.	Applications, tools and machines	June 28, 1887
345,511	Khotinsky, A.	Batteries, secondary	July 13, 1886
345,700	Kinsman, F. E.	Car-brakes	July 20, 1886
364,177	Kitson, G. L.	Conductors, lead-covered	May 31, 1887
364,178	Kitson, G. L.	do	May 31, 1887
357,774	Klán, V. and Spurny, F.	Lights, arc	Feb. 15, 1887
346,924	Knell, J. W.	Lights, systems and appliances	Aug. 10, 1886
354,793	Knight, W. H.	Locomotion	Dec. 21, 1886
358,043	Knight, W. H.	do	Feb. 22, 1887
353,142	Knowles, E. R.	Batteries, secondary, applications	Nov. 23, 1886
351,704	Knudson, A. A.	Telephones, mechanical	Oct. 26, 1886
360,308	Knudson, A. A.	Relays and sounders	Mar. 29, 1887
351,869	Kookogey, W. P.	Lights, incandescent	Nov. 2, 1886
360,024	Kookogey, W. P.	Batteries, galvanic	Mar. 29, 1887
360,532	Kookogey, W. P.	do	Apr. 5, 1887
364,656	Kookogey, W. P.	do	June 14, 1887
358,360	Krepps, V. A.	Circuit-closers	Feb. 22, 1887
349,849	Kugler, G.	Medical and surgical, body-wear	Sept. 28, 1886
360,447	Kunkle, J. C.	Annunciators	Apr. 5, 1887
360,448	Kunkle, J. C.	do	Apr. 5, 1887
353,566	Lackersteen, M. H.	Applications, general	Nov. 30, 1886
362,751	Lagerman, A.	Applications, tools and machines	May 10, 1887
362,289	Lakin, J. A.	Lights, arc, gravity feed, gear	May 3, 1887
360,025	Lambdin, C.	Bells	Mar. 29, 1887
350,140	Lane, G. M.	Lights, arc, positive feed	Oct. 5, 1886
351,367	Langdon-Davies, C.	Telegraphy, circuits and systems	Oct. 26, 1886
362,451	Lange, P.	Galvanometers	May 3, 1887
364,525	Lanston, T.	Telegraphy, printing	June 7, 1887
349,397	Lantz, J. A.	Connectors	Sept. 21, 1886
349,398	Lantz, J. A.	do	Sept. 21, 1886
361,365	Larish, J. W.	Telephones, calls	Apr. 19, 1887
361,364	Larish, J. W. and Maver, W., jr.	Telegraphy, duplex	Apr. 19, 1887
363,249	Lauhoff, J.	Telephones, mechanical	May 17, 1887
365,525	Lauhoff, J.	do	June 28, 1887
356,771	Leber, L. H. and Currens, M. C.	Alarms	Feb. 1, 1887
356,838	Lee, C. E.	Thermostats	Feb. 15, 1887
364,356	Leggo, W. A.	Telegraphy, circuits and systems	June 7, 1887
346,207	Le Grande, W. W.	Batteries, galvanic	July 27, 1886
351,384	Le Grande, W. W.	Railway signals	Oct. 26, 1886
352,903	Le Grande, W. W.	do	Nov. 16, 1886
352,549	Le Grande, W. W. and Burton, G. W.	Telegraphy, transmitters	Nov. 16, 1886
364,764	Lehy, G. B.	Alarms, burglar	June 14, 1887
360,030	Leipner, W. A.	Magneto-electric	Mar. 29, 1887
352,877	Leland, E. J.	Batteries, galvanic	Nov. 16, 1886
352,621	Lemp, H. and Wightman, M. J.	Cut-outs, thermal	Nov. 16, 1886
352,622	Lemp, H. and Wightman, M. J.	do	Nov. 16, 1886
365,189	Lemp, H. and Wightman, M. J.	Cut-outs, mechanical	June 21, 1887
349,109	Lenaerts, L.	Valve-controllers	Sept. 14, 1886
345,596	Lenoir, E. J. J.	Applications, tools and machines	July 13, 1886
347,943	Leonardson, J. M.	Insulators	Aug. 24, 1886
346,484	Liemke, H. H.	Railway signals	Aug. 3, 1886
346,485	Liemke, H. H.	do	Aug. 3, 1886
362,022	Liepmann, H.	Electrolysis	Apr. 26, 1887
353,637	Likly, H., Carpenter, C. A. and Graves, F. B.	Thermostats	Nov. 30, 1886
350,983	Linville, J. H.	Telegraphy, printing	Oct. 19, 1886
350,984	Linville, J. H.	do	Oct. 19, 1886
355,771	Linville, J. H.	Motors	Jan. 11, 1887
349,049	Lippincott, J. E.	Telegraph-poles	Sept. 14, 1886
347,247	Lister, J. T.	Lights, filaments and carbons	Aug. 10, 1886
350,203	Lister, J. T.	Telephones, details	Oct. 5, 1886
356,879	Lister, J. T.	Lights, filaments and carbons	Feb. 1, 1887
361,705	Litchfield, I. W.	Conductors	Apr. 26, 1887
355,330	Locke, S. D.	Conductors, underground	Jan. 4, 1887
360,354	Locke, W. F.	Insulators	Mar. 29, 1887
346,377	Lockwood, W. C.	Telephones, magnetic	July 27, 1886
360,316	Loesner, H. and De Bravura, M.	Conductors, underground	Mar. 29, 1887
345,641	Long, M. W.	Railway signals	July 13, 1886
345,642	Long, M. W.	do	July 13, 1886
358,682	Long, M. W.	Motors	Mar. 1, 1887
359,512	Long, M. W.	Railway signals	Mar. 15, 1887
365,345	Long, M. W.	do	June 21, 1887
350,754	Loomis, O. P. and Cooley, H. W.	Regulators	Oct. 12, 1886

No.	NAME.	CLASS.	DATE.
346,594	Lord, G. W	Telephones, mechanical	Aug. 3, 1886
356,594	Lord, G. W	do	Jan. 25, 1887
359,215	Lord, G. W	do	Mar. 8, 1887
359,216	Lord, G. W	do	Mar. 8, 1887
359,217	Lord, G. W	do	Mar. 8, 1887
359,218	Lord, G. W	do	Mar. 8, 1887
361,302	Lord, G. W	do	Apr. 19, 1887
362,639	Ludlow, W. I	Batteries, secondary	May 10, 1887
362,640	Ludlow, W. I	do	May 10, 1887
346,053	Lugo, O	Batteries, galvanic	July 20, 1886
348,134	Lugo, O	Telephones, magnetic	Aug. 24, 1886
362,847	Lugo, O	Batteries, galvanic	May 10, 1887
352,472	Lüngen, A	Bells	Nov. 9, 1886
352,473	Lüngen, A	Igniting devices	Nov. 9, 1886
352,474	Lüngen, A	Telephones, switches	Nov. 9, 1886
353,263	Lüngen, A	Magnetic locks and bolts	Nov. 23, 1886
352,625	Lyman, D. and Wheeler, M	Lights, incandescent	Nov. 16, 1886
358,864	Lyon, F. G	Telegraphy, fire	Mar. 8, 1887
344,843	Macdonald, R	Conductors, underground	July 6, 1886
361,276	MacFarlane, J	do	Apr. 19, 1887
359,619	Macrae, R	Galvanometers	Mar. 22, 1887
346,930	Macready, R. A	Keys	Aug. 10, 1886
352,700	Mahanay, S. C. and Campbell, B. L	Railway signals	Nov. 16, 1886
345,245	Mahnken, H	Telegraphy, printing	July 6, 1886
364,271	Maiche, L	Telegraphy, automatic	June 7, 1887
359,934	Main, W	Batteries, secondary	Mar. 22, 1887
361,770	Main, W	Magneto-electric	Apr. 26, 1887
362,099	Maloney, J. A	Telephones, details	May 3, 1887
362,100	Maloney, J. A	do	May 3, 1887
354,919	Manny, W. B	Circuit-closers	Dec. 28, 1886
359,085	Mansfield, G. W	Separators	Mar. 8, 1887
350,312	Markland, W. H	Magnetic locks and bolts	Oct. 5, 1886
353,797	Marshall, J. H	Batteries, secondary, applications	Dec. 7, 1886
349,312	Marshall, W	Telephones, magnetic	Sept. 21, 1886
360,968	Martin, M	Telegraphy, fire	Apr. 12, 1887
361,829	Marvin, H. N	Motors	Apr. 26, 1887
358,866	Massey, A. P	Car-brakes	Mar. 8, 1887
347,120	Mather, R. H	Rheostats	Aug. 10, 1886
351,388	Mather, R. H	Galvanometers	Oct. 26, 1886
353,151	Mather, R. H	Magneto-electric	Nov. 23, 1886
354,606	Mather, R. H	Regulators	Dec. 21, 1886
359,165	Mathieu, J. A	Electrolysis	Mar. 8, 1887
349,945	Maver, W. jr	Telegraphy, quadruplex	Sept. 28, 1886
364,031	Maxwell, W	Lights, filaments and carbons	May 31, 1887
348,227	Mayhew, T	Alarms	Aug. 31, 1886
359,799	Mayrhofer, C. A	Clocks	Mar. 22, 1887
351,191	McCracken, E. D	Conductors	Oct. 19, 1886
351,192	McCracken, E. D	do	Oct. 19, 1886
351,193	McCracken, E. D	Conductors, underground	Oct. 19, 1886
350,634	McCullough, L. H	Telegraphy, fire	Oct. 12, 1886
359,221	McDill, H. C. and Gaston, J. E	Lights, arc, gravity feed, frictional	Mar. 8, 1887
353,694	McDonough, J. W	Telephones, electric	Dec. 7, 1886
357,682	McDonough, J. W. and Eldred, H. H	Telephones, switches	Feb. 15, 1887
363,250	McElroy, W. J. and Nicholson, J. D	Locomotion	May 17, 1887
364,721	McEvoy, E	Cut-outs, thermal	June 14, 1887
349,893	McGill, S. F	Conductors	Sept. 28, 1886
348,406	McGrady, J. and Sloane, G. H	Medical and surgical, body-wear	Aug. 31, 1886
347,625	McIntire, C	Connectors	Aug. 17, 1886
355,189	McLaughlin, J. F	Telephones, systems	Dec. 28, 1886
355,190	McLaughlin, J. F	do	Dec. 28, 1886
359,540	McLaughlin, J. F	Locomotion	Mar. 15, 1887
359,805	McLaughlin, J. F	Regulators	Mar. 22, 1887
363,158	McLaughlin, J. F	Telegraphy, dial	May 17, 1887
347,628	McQueen, F. J	Railway signals	Aug. 17, 1886
358,161	McVay, W	Alarms	Feb. 22, 1887
351,389	Mead, C. K	Telephones, supports	Oct. 26, 1886
349,947	Mehren, J. F	Telephones, systems	Sept. 28, 1886
357,726	Mehren, J. F	do	Feb. 15, 1887
359,575	Mehren, J. F. and Carroll, W	do	Mar. 15, 1887
350,381	Meisenheimer, A	Thermostats	Oct. 5, 1886
364,429	Mejer, G. E	Clocks	June 7, 1887
359,876	Meserole, A. V	Batteries, secondary	Mar. 22, 1887
359,877	Meserole, A. V	do	Mar. 22, 1887
364,660	Meserole, A. V	Batteries, galvanic	June 14, 1887
353,367	Meston, A. W	Regulators	Nov. 30, 1886
355,548	Meyer, A	Telegraphy, fire	Jan. 4, 1887
354,838	Michales, M. A. and Michaels, A	Applications, general	Dec. 21, 1886



No.	NAME.	CLASS.	DATE.
358,053	Michales, M. A. and Michaels, A	Applications, general	Feb. 22, 1887
354,923	Mindeleff, D	Separators	Dec. 28, 1886
352,342	Mingle, G. W. and Brown, W. T	Cut-outs, thermal	Nov. 9, 1886
362,584	Misell, D	Batteries, galvanic	May 10, 1887
351,933	Moffatt, J. M. and Blakeney, E	Telegraphy, quadruplex	Nov. 2, 1886
348,407	Moore, J. N. B	Lights, systems and appliances	Aug. 31, 1886
352,771	Morehouse, H. G	Conductors, underground	Nov. 16, 1886
350,548	Morley, E. A	Thermostats	Oct. 12, 1886
365,089	Morrison, A. E	do	June 21, 1887
354,169	Morton, W. J	Telephones, magnetic	Dec. 14, 1886
352,708	Moses, O. A	Batteries, secondary	Nov. 16, 1886
361,020	Mosher, S. E	Telephones, calls	Apr. 12, 1887
346,938	Muenchinger, G. A	Thermostats	Aug. 10, 1886
348,572	Munsie, J. F	Conductors, underground	Sept. 7, 1886
356,151	Munsie, J. F	do	Jan. 18, 1887
356,152	Munsie, J. F	do	Jan. 18, 1887
356,153	Munsie, J. F	do	Jan. 18, 1887
355,655	Munson, A. J	Lightning-rods	Jan. 4, 1887
352,143	Munson, J. E	Telegraphy, printing	Nov. 9, 1886
346,215	Murray, J. H	Medical and surgical, body-wear	July 27, 1886
347,952	Murray, P., jr	Lights, systems and appliances	Aug. 24, 1886
359,622	Murray, W	Telegraph-poles	Mar. 22, 1887
347,823	Neyraud, J. B	Batteries, galvanic	Aug. 24, 1886
360,040	Nichols, G. P. and Coombs, M., jr	Lights, systems and appliances	Mar. 29, 1887
347,634	Nicholson, H. C	Bells	Aug. 17, 1886
356,418	Nickum, G. S	Transmitters	Jan. 18, 1887
346,217	Noble, C. B	Lights, arc	July 27, 1886
362,852	Noble, C. M	Lights, arc, positive feed	May 10, 1887
359,686	Noyes, B. J	Telegraphy, fire	Mar. 22, 1887
359,687	Noyes, B. J	do	Mar. 22, 1887
359,688	Noyes, B. J	do	Mar. 22, 1887
359,689	Noyes, B. J	do	Mar. 22, 1887
347,635	O'Brien, J	Insulators	Aug. 17, 1886
362,652	O'Connell, J. J	Telephones, systems	May 10, 1887
354,434	O'Keenan, C. E	Batteries, galvanic	Dec. 14, 1886
361,968	Olsen, J. L. W	Alarms	Apr. 26, 1887
365,018	Otis, C. G	Applications, tools and machines	June 14, 1887
356,496	Otis, N. P	do	Jan. 25, 1887
358,691	Page, R. C. and Soden, F. H	Valve-controllers	Mar. 1, 1887
356,908	Paige, A. E	Cut-outs, electro-magnetic	Jan. 11, 1887
355,024	Paine, H. M	Motors	Dec. 28, 1886
363,669	Paine, H. M	do	May 24, 1887
348,045	Painter, G. E	Annunciators	Aug. 24, 1886
354,209	Painter, G. E	do	Dec. 14, 1886
353,755	Palmer, N. F	Telephones, electric	Dec. 7, 1886
358,939	Palmer, N. F	Telegraphy, circuits and systems	Mar. 8, 1887
358,940	Palmer, N. F	Telephones, electric	Mar. 8, 1887
358,941	Palmer, N. F	do	Mar. 8, 1887
345,720	Parcelle, A. L	Motors	July 20, 1886
345,721	Parcelle, A. L	Telegraphy, multiplex	July 20, 1886
360,903	Parcelle, A. L	Clocks	Apr. 12, 1887
348,636	Park, H. S	Car-brakes	Sept. 7, 1886
349,733	Park, H. S	do	Sept. 28, 1886
351,650	Park, H. S	do	Oct. 26, 1886
353,880	Park, H. S	do	Dec. 7, 1886
353,269	Parker, T. H. and Geary, J	Alarms, burglar	Nov. 23, 1886
362,310	Parsons, H. W	Dental instruments	May 3, 1887
347,440	Partz, A. F. W	Batteries, galvanic	Aug. 17, 1886
353,757	Partz, A. F. W	do	Dec. 7, 1886
362,531	Partz, A. F. W	do	May 10, 1887
359,940	Patee, T. H. and Lawshe, S. R	Lightning-rods	Mar. 22, 1887
357,687	Patterson, C. A	Telephones, systems	Feb. 15, 1887
346,414	Patterson, W. R	Conductors	July 27, 1886
346,942	Patterson, W. R	Conductors, underground	Aug. 10, 1886
352,436	Patterson, W. R	Batteries, galvanic	Nov. 9, 1886
356,156	Patterson, W. R	Conductors	Jan. 18, 1887
356,206	Patterson, W. R	Conductors, lead-covered	Jan. 18, 1887
356,207	Patterson, W. R	Conductors	Jan. 18, 1887
363,909	Pauthonier, C	Lights, filaments and carbons	May 31, 1887
361,319	Paxson, I	Conductors, underground	Apr. 19, 1887
343,771	Payne, C. Q	Separators	Sept. 7, 1886
356,850	Peachey, J. D	Annunciators	Feb. 1, 1887
358,694	Pearce, F. and Jones, J	Telegraphy, fire	Mar. 1, 1887
356,261	Pearce, J. E	Batteries, galvanic	Jan. 18, 1887
348,994	Pearce, T. J. and Beardsley, M. W	Conductors	Sept. 14, 1886
363,079	Pease, W. M	Valve-controllers	May 17, 1887
359,812	Pennie, H	Insulators	Mar. 22, 1887



No.	NAME.	CLASS.	DATE.
359,738	Pennock, G. B.	Conductors, underground	Mar. 22, 1887
348,048	Perkins, C. G.	Cut-outs, thermal	Aug. 24, 1883
348,049	Perkins, C. G.	Lights, incandescent	Aug. 24, 1886
349,516	Perkins, C. G.	Lights, systems and appliances	Sept. 21, 1886
349,739	Perkins, C. G.	Conductors, underground	Sept. 28, 1886
349,809	Perkins, C. G.	Connectors	Sept. 28, 1886
360,244	Perkins, C. G.	Lights, sockets and keys	Mar. 29, 1887
361,712	Perkins, C. G.	Regulators	Apr. 26, 1887
361,713	Perkins, C. G.	Cut-outs, thermal	Apr. 26, 1887
362,108	Perkins, C. G.	Conductors	May 3, 1887
358,464	Perreur-Lloyd, J. B.	Batteries, galvanic	Mar. 1, 1887
347,374	Perrin, T. J.	Telephones, magnetic	Aug. 17, 1886
348,578	Perrin, T. J.	Telephones, systems	Sept. 7, 1886
348,579	Perrin, T. J.	do.	Sept. 7, 1886
350,388	Perry, N. W.	Alarms	Oct. 5, 1886
356,727	Perry, N. W.	Batteries, galvanic	Jan. 25, 1887
345,539	Pfannkuche, A.	Lights, filaments and carbons	July 13, 1886
348,927	Pfannkuche, G.	Lights, arc	Sept. 7, 1886
344,983	Phelps, A. M.	Telephones, magnetic	July 6, 1886
351,524	Phelps, L. J.	Telegraphy, railway-car	Oct. 26, 1886
351,525	Phelps, L. J.	do.	Oct. 26, 1886
355,468	Phelps, L. J.	do.	Jan. 4, 1887
355,469	Phelps, L. J.	do.	Jan. 4, 1887
355,470	Phelps, L. J.	do.	Jan. 4, 1887
362,312	Pieper, H., fils.	Lights, arc, positive feed	May 3, 1887
355,662	Pike, D. E.	Telegraphy, printing	Jan. 4, 1887
349,600	Piper, C. E.	Batteries, galvanic	Sept. 21, 1886
359,982	Plume, F. C.	Connectors	Mar. 22, 1887
359,690	Pollak, K.	Batteries, galvanic	Mar. 22, 1887
362,902	Pond, C. H.	Clocks	May 10, 1887
348,139	Pope, E.	Telephones, systems	Aug. 24, 1886
350,445	Potter, E. B.	Heaters	Oct. 5, 1886
359,739	Powers, J. A.	Lights, systems and appliances	Mar. 22, 1887
360,538	Powers, J. A.	do.	Apr. 5, 1887
354,342	Pratt, C. C.	Lightning-rods	Dec. 14, 1886
355,838	Pratt, H. P. and McPherson, L. O.	Telephones, electric	Jan. 11, 1887
357,627	Prescott, G. B., jr.	Batteries, secondary, applications	Feb. 15, 1887
348,473	Prescott, T. H.	Thermostats	Aug. 31, 1886
354,932	Price, F. A.	do.	Dec. 28, 1886
352,571	Pridham, C. W.	Railway signals	Nov. 16, 1886
346,561	Pyle, G. C.	Lights, arc	Aug. 3, 1886
353,643	Pyle, G. C.	Lights, arc, gravity feed, frictional	Nov. 30, 1886
356,786	Pyle, H. L.	Lights, arc, positive feed	Feb. 1, 1887
356,787	Pyle, H. L.	Lights, systems and appliances	Feb. 1, 1887
356,788	Pyle, H. L.	Lights, arc	Feb. 1, 1887
355,412	Quinby, W. C.	Batteries, galvanic	Jan. 4, 1887
350,154	Radford, B. F.	Magneto-electric	Oct. 5, 1886
357,967	Radford, C. M.	Telephones, mechanical	Feb. 15, 1887
360,362	Radford, C. M.	do.	Mar. 29, 1887
364,372	Rae, J. H.	Applications, general	June 7, 1887
346,862	Ramel, A. and Dean, W. W.	Clocks	Aug. 3, 1886
346,863	Ramel, A. and Dean, W. W.	do.	Aug. 3, 1886
365,023	Ramel, A. and Dean, W. W.	do.	June 14, 1887
349,605	Reams, A. J.	Indicators	Sept. 21, 1886
353,003	Recordon, E.	Motors	Nov. 23, 1886
359,691	Reed, H. T.	Lights, systems and appliances	Mar. 22, 1887
346,314	Reeder, E. A.	Telegraphy, fire	July 27, 1886
352,203	Reichling, R.	Alarms	Nov. 9, 1886
345,542	Reinmann, A. L.	Lights, sockets and keys	July 13, 1886
345,860	Reinmann, A. L.	Lights, filaments and carbons	July 20, 1886
353,158	Reinmann, A. L.	Lights, incandescent	Nov. 23, 1886
355,714	Reinmann, A. L.	do.	Jan. 11, 1887
347,830	Renchan, J. J.	Lights, systems and appliances	Aug. 24, 1886
361,778	Reynolds, G. H.	Applications, tools and machines	Apr. 26, 1887
361,779	Reynolds, G. H.	do.	Apr. 26, 1887
361,780	Reynolds, G. H.	do.	Apr. 26, 1887
354,233	Rice, E. W., jr.	Lights, systems and appliances	Dec. 14, 1886
364,133	Richardson, J. D.	Telephones, systems	May 31, 1887
356,792	Ricketson, J. C.	Indicators	Feb. 1, 1887
352,265	Ries, E. E.	Locomotion	Nov. 9, 1886
356,963	Ries, E. E.	Car-brakes	Feb. 1, 1887
356,964	Ries, E. E.	do.	Feb. 1, 1887
347,642	Ripley, R. A.	Systems of distribution	Aug. 17, 1886
363,831	Ritchie, J.	Induction-coils	May 31, 1887
361,782	Robb, J. T.	Lights, systems and appliances	Apr. 26, 1887
350,772	Roberts, G. L.	Telephones, electric	Oct. 12, 1886
352,070	Robertson, A. R.	Applications, tools and machines	Nov. 2, 1886

No.	NAME.	CLASS.	DATE.
350,320	Robertson, J. H	Telegraphy, automatic	Oct. 5, 1886
353,592	Robertson, J. H	do	Nov. 30, 1886
353,593	Robertson, J. H	do	Nov. 30, 1886
353,594	Robertson, J. H	do	Nov. 30, 1886
357,033	Robertson, J. H	do	Feb. 1, 1887
357,039	Robertson, J. H	do	Feb. 1, 1887
346,688	Robinson, W. L	Conductors, underground	Aug. 3, 1886
345,178	Rockwell, R. N	Medical and surgical, body-wear	July 6, 1886
350,843	Rogers, C	Insulators	Oct. 12, 1886
364,299	Rogers, C. D	Telegraphy, fire, alarms and extinguishers	June 7, 1887
353,753	Rogers, J. H	Motors	Mar. 1, 1887
354,241	Rose, A. W	Telephones, electric	Dec. 14, 1886
346,865	Rose, P. L. and Rein, G	Telephones, systems	Aug. 3, 1886
346,866	Rose, P. L. and Rein, G	do	Aug. 3, 1886
357,337	Rosenblatt, S	Telephones, supports	Feb. 8, 1887
362,115	Rosenblatt, S	do	May 3, 1887
345,452	Roth, C. W	Applications, general	July 13, 1886
350,945	Roth, C. W	Separators	Oct. 19, 1886
346,609	Rousseau, D	Annunciators	Aug. 3, 1886
352,154	Rousseau, D	Magnetic locks and bolts	Nov. 9, 1886
357,789	Rutherford, R. C	Relays and sounders	Feb. 15, 1887
354,350	Samuel, E	Locomotion	Dec. 14, 1886
350,215	Sargent, F. G	Telephones, electric	Oct. 5, 1886
354,352	Sass, V. and Friederich, K	Batteries, secondary	Dec. 14, 1886
359,816	Sawyer, W. H	Conductors, underground	Mar. 22, 1887
352,006	Schaefer, F	Lights, sockets and keys	Nov. 2, 1886
352,007	Schaefer, F	do	Nov. 2, 1886
361,086	Scheidl, C	Conductors, underground	Apr. 12, 1887
357,416	Schleicher, G	Alarms, burglar	Feb. 8, 1887
362,399	Schlotterbeck, A. G	Lights, systems and appliances	May 3, 1887
353,164	Schmid, A	Magneto-electric	Nov. 23, 1886
361,896	Schmid, A	do	Apr. 26, 1887
355,032	Schneekloth, H. A	Telephones, magnetic	Dec. 28, 1886
364,605	Schoonmaker, J. H	Lightning-rods	June 7, 1887
347,013	Scola, J. P. A	Applications, general	Aug. 10, 1886
350,469	Scott, D. B	Telegraphy, printing	Oct. 5, 1886
365,705	Scott, G. B	do	June 28, 1887
360,175	Scott, J. McM	Railway signals	Mar. 29, 1887
345,325	Scribner, C. E	Telephones, systems	July 13, 1886
345,326	Scribner, C. E	do	July 13, 1886
356,211	Scribner, C. E	Lights, arc, gravity feed, frictional	Jan. 18, 1887
356,425	Scribner, C. E	Telephones, systems	Jan. 18, 1887
356,426	Scribner, C. E	do	Jan. 18, 1887
356,427	Scribner, C. E	do	Jan. 18, 1887
357,538	Scribner, C. E	Telephones, switch-boards	Feb. 8, 1887
346,505	Sears, J. W	Valve-controllers	Aug. 3, 1886
347,068	Sedgwick, F	Magnetic locks and bolts	Aug. 10, 1886
347,069	Sedgwick, F	do	Aug. 10, 1886
347,070	Sedgwick, F	do	Aug. 10, 1886
347,071	Sedgwick, F	do	Aug. 10, 1886
363,550	Sedgwick, F	Applications, general	May 24, 1887
350,160	See, J. W	Telephones, systems	Oct. 5, 1886
359,328	Seel, C	Lights, incandescent	Mar. 15, 1887
357,539	Seely, J. A	Telephones, systems	Feb. 8, 1887
357,540	Seely, J. A	do	Feb. 8, 1887
351,209	Seiler, P	Telephones, magnetic	Oct. 19, 1886
355,791	Seiler, P	Annunciators	Jan. 11, 1887
364,444	Seiler, P	do	June 7, 1887
353,890	Selden, C	Circuits and systems	Mar. 8, 1887
361,089	Selden, C	Car-brakes	Apr. 12, 1887
361,090	Selden, C	do	Apr. 12, 1887
363,969	Selden, C	Circuits and systems	May 31, 1887
365,103	Selden, C	Telegraphy, reed	June 21, 1887
361,455	Settle, M	Lights, incandescent	Apr. 19, 1887
365,639	Shaffer, C. H	Telegraphy, fire, alarms and extinguishers	June 28, 1887
347,964	Shallenberger, O. B	Regulators	Aug. 24, 1886
357,293	Shallenberger, O. B	do	Feb. 8, 1887
359,101	Shallenberger, O. B	do	Mar. 8, 1887
352,577	Shaver, G. F	Telephones, mechanical	Nov. 16, 1886
354,942	Shaver, G. F	Telephones, systems	Dec. 28, 1886
353,598	Shaw, E	Lights, filaments and carbons	Nov. 30, 1886
353,086	Shaw, E. S	Locomotion	Nov. 23, 1886
359,894	Sheehy, R. J	Magneto-electric	Mar. 22, 1887
362,322	Sheehy, R. J	Meters	May 3, 1887
347,204	Short, S. H	Regulators	Aug. 10, 1886
356,667	Short, S. H	Magneto-electric	Jan. 25, 1887
357,865	Short, S. H	Railway signals	Feb. 15, 1887



No.	NAME.	CLASS.	DATE.
348,476	Short, S. H. and Nesmith, J. W	Locomotion	Aug. 31, 1886
348,477	Short, S. H. and Nesmith, J. W	do	Aug. 31, 1886
362,323	Short, S. H. and Nesmith, J. W	do	May 3, 1887
353,715	Shryock, J. W	Telegraphy, transmitters	Dec. 7, 1886
355,793	Siebel, J. E	Alarms	Jan. 11, 1887
360,823	Singer, W. F	Thermostats	Apr. 5, 1887
360,824	Singer, W. F	Telegraphy, fire	Apr. 5, 1887
354,257	Slattery, M. M. M	Rheostats	Dec. 14, 1886
354,258	Slattery, M. M. M	Lights, systems and appliances	Dec. 14, 1886
358,415	Slattery, M. M. M	Induction-coils	Feb. 22, 1887
358,492	Slattery, M. M. M	Lights, incandescent	Mar. 1, 1887
358,493	Slattery, M. M. M	Regulators	Mar. 1, 1887
358,793	Slattery, M. M. M	Induction-coils	Mar. 1, 1887
356,795	Slattery, M. M. M	Lights, incandescent	Feb. 1, 1887
356,796	Slattery, M. M. M	Batteries, galvanic	Feb. 1, 1887
355,843	Sloan, E. C	Conductors, lead-covered	Jan. 11, 1887
355,844	Sloan, E. C	do	Jan. 11, 1887
351,075	Slocum, E. L	Telegraphy, fire	Oct. 19, 1886
358,896	Smith, A. B	Annunciators	Mar. 8, 1887
349,533	Smith, A. T	Igniting devices	Sept. 21, 1886
355,226	Smith, D. J. and Sinclair, D	Telephones, systems	Dec. 28, 1886
353,827	Smith, H. J	Magneto-electric, hand-machines	Dec. 7, 1886
365,351	Smith, J	Lights, sockets and keys	June 21, 1887
361,901	Smith, J. E	Telegraphy, fire	Apr. 26, 1887
348,792	Smith, M. H	Locomotion	Sept. 7, 1886
356,605	Smith, M. M. and Jones, F. P	Alarms	Jan. 25, 1887
345,998	Smith, R. F	Applications, tools and machines	July 20, 1886
347,656	Smith, R. F	do	Aug. 17, 1886
346,237	Smith, R. T	Applications, general	July 27, 1886
360,252	Smith, W. C	Telegraphy, fire	Mar. 29, 1887
353,984	Smith, W. F	Connectors	Dec. 7, 1886
365,353	Smith, W. R. and Washburn, A. L	Recorders	June 21, 1887
360,179	Solano, R	Car-brakes	Mar. 29, 1887
360,925	Solano, R	Conductors	Apr. 12, 1887
353,511	Sorley, C	Batteries, secondary	Nov. 30, 1886
346,509	Spalding, H. C	Conductors, anti-inductive	Aug. 3, 1886
346,510	Spalding, H. C	do	Aug. 3, 1886
345,084	Spaulding, E. S	Telephones, electric	July 6, 1886
345,085	Spaulding, E. S	do	July 6, 1886
347,528	Speer, A	Lights, systems and appliances	Aug. 17, 1886
353,986	Sperry, E. A	Regulators	Dec. 7, 1886
353,987	Sperry, E. A	Motors	Dec. 7, 1886
353,988	Sperry, E. A	Regulators	Dec. 7, 1886
353,989	Sperry, E. A	Magneto-electric	Dec. 7, 1886
353,990	Sperry, E. A	Regulators	Dec. 7, 1886
354,945	Sperry, E. A	Magneto-electric	Dec. 28, 1886
354,946	Sperry, E. A	do	Dec. 28, 1886
360,060	Sperry, E. A	Car-brakes	Mar. 29, 1887
361,843	Sperry, E. A	Transmission of power	Apr. 26, 1887
361,844	Sperry, E. A	Cut-outs, electro-magnetic	Apr. 26, 1887
353,829	Sprague, F. J	Locomotion	Dec. 7, 1886
363,304	Stanley, L. T	Induction-coils	May 17, 1887
348,501	Stanley, W., jr	Telephones, electric	Aug. 31, 1886
349,611	Stanley, W., jr	Induction-coils	Sept. 21, 1886
349,612	Stanley, W., jr	do	Sept. 21, 1886
349,613	Stanley, W., jr	Lights, systems and appliances	Sept. 21, 1886
349,614	Stanley, W., jr	do	Sept. 21, 1886
349,615	Stanley, W., jr	Magneto-electric	Sept. 21, 1886
349,616	Stanley, W., jr	Induction-coils	Sept. 21, 1886
349,617	Stanley, W., jr	do	Sept. 21, 1886
353,603	Stanley, W., jr	Cut-outs, mechanical	Nov. 30, 1886
363,559	Stanley, W., jr	Lights, sockets and keys	May 24, 1887
347,258	Starr, E. T	Batteries, secondary	Aug. 10, 1886
347,259	Starr, E. T	Batteries, galvanic	Aug. 10, 1886
357,873	Starr, E. T	Batteries, secondary, applications	Feb. 15, 1887
359,900	Starr, E. T	do	Mar. 22, 1887
359,901	Starr, E. T	do	Mar. 22, 1887
362,859	Stearns, J. M., jr	Rheostats	May 10, 1887
365,493	Stecker, M	Alarms	June 28, 1887
359,902	Steffens, M. J	Applications, general	Mar. 22, 1887
354,814	Steiner, J	Keys	Dec. 21, 1886
354,815	Steiner, J	Relays and sounders	Dec. 21, 1886
351,408	Stern, P. K	Alarms, burglar	Oct. 26, 1886
346,388	Stern, W. A	Lights, systems and appliances	July 27, 1886
358,949	Stern, W. A	Alarms	Mar. 8, 1887
355,892	Sternberg, G. M	Thermostats	Jan. 11, 1887
355,893	Sternberg, G. M	do	Jan. 11, 1887



No.	NAME.	CLASS.	DATE.
355,894	Sternberg, G. M	Thermostats	Jan. 11, 1887
355,895	Sternberg, G. M. and Lehmann, A. A	do	Jan. 11, 1887
346,957	Stevens, W. L	Meters	Aug. 10, 1886
355,729	Stevens, W. L	Regulators	Jan. 11, 1887
350,644	Stewart, G. W	Relays and sounders	Oct. 12, 1886
361,730	Stewart, S. B	Telegraphy, railway-car	Apr. 26, 1887
361,731	Stewart, S. B	Conductors	Apr. 26, 1887
351,134	Stiegelmaier, W. H	Thermostats	Oct. 19, 1886
351,813	Stites, G	Lightning-rods	Nov. 2, 1886
355,420	Stockwell, J. O	Anti-induction devices	Jan. 4, 1887
357,134	Stockwell, J. O	Telephones, electric	Feb. 1, 1887
351,077	Stögermayr, F. F	Induction-coils	Oct. 19, 1886
351,719	Stone, L. B	Thermostats	Oct. 26, 1886
356,805	Stonitsch, J. and Sweet, W. F	Indicators	Feb. 1, 1887
354,992	Street, S. T	Railway signals	Dec. 28, 1886
355,952	Stut, J. C. H	Telephones, electric	Jan. 11, 1887
358,417	Summers, L. P	Magnetic locks and bolts	Feb. 22, 1887
355,798	Sutton, G. D	Conductors, underground	Jan. 11, 1887
359,984	Swain, C. R	Annunciators	Mar. 22, 1887
362,469	Swan, A	Cut-outs, mechanical	May 3, 1887
346,515	Sweeny, R. G	Telephones, systems	Aug. 3, 1886
349,539	Tabony, J. H	do	Sept. 21, 1886
359,188	Tabony, J. H	Telephones, electric	Mar. 8, 1887
359,747	Tabony, J. H	Telephones, systems	Mar. 22, 1887
360,626	Tabony, J. H	Telephones, magnetic	Apr. 5, 1887
357,642	Tasker, W. H. and Jones, T. J	Batteries, galvanic	Feb. 15, 1887
358,087	Tasker, W. H. and Jones, T. J	do	Feb. 22, 1887
363,182	Tatham, J	Conductors, lead-covered	May 17, 1887
359,823	Taussig, S	Telegraphy, fire	Mar. 22, 1887
359,824	Taussig, S	do	Mar. 22, 1887
350,954	Tesla, N	Regulators	Oct. 19, 1886
359,748	Tesla, N	Magneto-electric	Mar. 22, 1887
351,222	Thackara, S	Clocks	Oct. 19, 1886
362,192	Thaxter, G. E	Circuit-closers	May 3, 1887
353,766	Thompson, A. and Ritchie, R. O	Telegraphy, fire	Dec. 7, 1886
359,825	Thompson, C. M	Conductors	Mar. 22, 1887
365,495	Thompson, E. P	Lights, incandescent	June 28, 1887
345,334	Thomson, E	Motors	July 13, 1886
345,335	Thomson, E	Lights, sockets and keys	July 13, 1886
345,336	Thomson, E	Magneto-electric	July 13, 1886
347,140	Thomson, E	Heaters	Aug. 10, 1886
347,141	Thomson, E	do	Aug. 10, 1886
347,142	Thomson, E	do	Aug. 10, 1886
349,912	Thomson, E	Magneto-electric	Sept. 28, 1886
350,955	Thomson, E	Cut-outs, electro-magnetic	Oct. 19, 1886
350,956	Thomson, E	Lights, arc	Oct. 19, 1886
350,957	Thomson, E	Electro-magnets	Oct. 19, 1886
350,958	Thomson, E	Lights, systems and appliances	Oct. 19, 1886
353,179	Thomson, E	Regulators	Nov. 23, 1886
353,180	Thomson, E	do	Nov. 23, 1886
354,272	Thomson, E	Batteries, secondary	Dec. 14, 1886
354,273	Thomson, E	Regulators	Dec. 14, 1886
354,274	Thomson, E	Induction-coils	Dec. 14, 1886
356,902	Thomson, E	Magneto-electric	Feb. 1, 1887
356,903	Thomson, E	Lights, arc	Feb. 1, 1887
360,122	Thomson, E	Systems of distribution	Mar. 29, 1887
360,123	Thomson, E	Cut-outs, electro-magnetic	Mar. 29, 1887
360,124	Thomson, E	do	Mar. 29, 1887
360,125	Thomson, E	Systems of distribution	Mar. 29, 1887
363,183	Thomson, E	Cut-outs, mechanical	May 17, 1887
363,184	Thomson, E	Regulators	May 17, 1887
363,185	Thomson, E	Motors	May 17, 1887
363,186	Thomson, E	do	May 17, 1887
365,553	Thomson, E	Lights, arc	June 28, 1887
365,414	Thomson, F	Lights, systems and appliances	June 28, 1887
348,799	Thone, F	Lights, arc	Sept. 7, 1886
363,562	Tichenor, A. C	Batteries, galvanic	May 24, 1887
352,374	Tilden, J. A	Steering and propulsion	Nov. 9, 1886
347,075	Timmis, I. A. and Forbes, G	Car-brakes	Aug. 10, 1886
359,040	Tisdale, C. D	Railway signals	Mar. 8, 1887
349,767	Torrey, A. and Casey, D. J	Records	Sept. 28, 1886
352,590	Toulmin, M	Railway signals	Nov. 16, 1886
359,581	Toulmin, M	Alarms	Mar. 15, 1887
364,975	Townley, L. P. and Washburn, W. J	Medical and surgical, body-wear	June 14, 1887
348,429	Townsend, L	Telephones, magnetic	Aug. 31, 1886
348,430	Townsend, L	Telephones, electric	Aug. 31, 1886
350,024	Townsend, L	Telephones, systems	Sept. 28, 1886

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358,002	Trauernicht, T. H	Applications, general	Feb. 15, 1887
360,254	Tregoning, J	Lights, arc, gravity feed, gear	Mar. 29, 1887
344,882	Trippe, S. L	Batteries, secondary	July 6, 1886
348,482	Trippe, S. L	do	Aug. 31, 1886
350,449	Tucker, C. A	Annunciators	Oct. 5, 1886
350,450	Tucker, C. A	Alarms	Oct. 5, 1886
350,451	Tucker, C. A	Telegraphy, fire	Oct. 5, 1886
353,274	Tucker, C. A. and Huebel, O. H	Bells	Nov. 23, 1886
353,273	Tucker, C. A. and Markland, W. H	do	Nov. 23, 1886
346,962	Turnbull, W. C	Telephones, magnetic	Aug. 10, 1886
348,936	Turnbull, W. C	Telephones, switches	Sept. 7, 1886
346,876	Ullman, M	Annunciators	Aug. 3, 1886
358,511	Upton, E. W	Thermostats	Mar. 1, 1887
357,646	Upward, A. R. and Pridham, C. W	Batteries, galvanic	Feb. 15, 1887
357,050	Vail, J. H	Lightning-rods	Feb. 1, 1887
363,702	Vance, S. B. H	Lights, systems and appliances	May 24, 1887
347,399	Vance, T. C. II	Indicators	Aug. 17, 1886
362,128	Vau Choate, S. F	Lights, incandescent	May 3, 1887
346,963	Van Depoele, C. J	Locomotion	Aug. 10, 1886
347,901	Van Depoele, C. J	do	Aug. 24, 1886
347,902	Van Depoele, C. J	Motors	Aug. 24, 1886
347,903	Van Depoele, C. J	do	Aug. 24, 1886
347,904	Van Depoele, C. J	Car-brakes	Aug. 24, 1886
347,905	Van Depoele, C. J	Locomotion	Aug. 24, 1886
348,360	Van Depoele, C. J	Car-brakes	Aug. 31, 1886
352,074	Van Depoele, C. J	Magneto-electric	Nov. 2, 1886
352,167	Van Depoele, C. J	Car-brakes	Nov. 9, 1886
353,333	Van Depoele, C. J	Lights, incandescent	Nov. 30, 1886
353,334	Van Depoele, C. J	Cut-outs, electro-magnetic	Nov. 30, 1886
353,335	Van Depoele, C. J	Locomotion	Nov. 30, 1886
353,653	Van Depoele, C. J	Conductors	Nov. 30, 1886
358,512	Van Depoele, C. J	Locomotion	Mar. 1, 1887
362,798	Van Depoele, C. J	Motors	May 10, 1887
357,647	Vander Weyde, P. II	Medical and surgical, body-wear	Feb. 15, 1887
345,008	Van Gestel, J. T	Lights, sockets and keys	July 6, 1886
358,092	Vau Gestel, J. T	Batteries, secondary	Feb. 22, 1887
359,371	Vau Nort, S. P	Railway signals	Mar. 15, 1887
360,492	Van Rysselberghe, F	Telegraphy, circuits and systems	Apr. 5, 1887
361,734	Van Rysselberghe, F	do	Apr. 26, 1887
363,188	Van Rysselberghe, F	do	May 17, 1887
362,682	Van Sands, H	Insulators	May 10, 1887
358,133	Vivó y Graells, F	Regulators	Feb. 22, 1887
354,818	Voelker, W. L	Telephones, details	Dec. 21, 1886
356,019	Voelker, W. L	Lights, incandescent	Jan. 11, 1887
356,020	Voelker, W. L	Lights, filaments and carbons	Jan. 11, 1887
347,752	Vogel, W	Railway signals	Aug. 17, 1886
347,753	Vogel, W	do	Aug. 17, 1886
350,025	Vogler, R	Motors	Sept. 23, 1886
353,649	Waddell, M	Galvanometers	Nov. 30, 1886
355,734	Waite, H. E	Telephones, magnetic	Jan. 11, 1887
360,068	Waite, H. E	do	Mar. 29, 1887
360,934	Waite, H. E	Induction-coils	Apr. 12, 1887
361,794	Walker, S. F	Batteries, galvanic	Apr. 26, 1887
353,337	Wallace, T. and En Holm, O. A	Telephones, electric	Nov. 30, 1886
360,127	Wallis, F. B	Medical and surgical, body-wear	Mar. 29, 1887
351,229	Walter, H	Motors	Oct. 19, 1886
351,544	Walter, H. E	Magneto-electric	Oct. 26, 1886
360,258	Walter, H. E. and Batchelor, C	do	Mar. 29, 1887
360,259	Walter, H. E. and Batchelor, C	do	Mar. 29, 1887
354,847	Walter, W. C	Cut-outs, thermal	Dec. 21, 1886
364,559	Wamsley, W. F	Connectors	June 7, 1887
364,558	Wamsley, W. F. and McIntosh, T	do	June 7, 1887
358,309	Warde, G. H	Lights, systems and appliances	Feb. 22, 1887
363,440	Warner, C. D	Clocks	May 24, 1887
346,965	Warner, E. P	Magneto-electric	Aug. 10, 1886
356,859	Warner, E. P	Telephones, systems	Feb. 1, 1887
361,973	Warner, E. P	Magneto-electric	Apr. 26, 1887
359,414	Wasserman, G	Applications, tools and machines	Mar. 15, 1887
345,937	Waterhouse, A. G	Lights, arc	July 20, 1886
346,183	Waters, E. G. and Sweeny, R. G	Telephones, switch-boards	July 27, 1886
355,423	Watkins, F. C	Connectors	Jan. 4, 1887
355,424	Watkins, F. C	Telephones, magnetic	Jan. 4, 1887
355,425	Watkins, F. C	Telephones, switch-boards	Jan. 4, 1887
355,426	Watkins, F. C	Telephones, electric	Jan. 4, 1887
357,051	Watkins, F. C	Telephones, systems	Feb. 1, 1887
357,052	Watkins, F. C	Annunciators	Feb. 1, 1887
357,053	Watkins, F. C	Telephones, systems	Feb. 1, 1887



No.	NAME.	CLASS.	DATE.
357,054	Watkins, F. C.	Telephones, electric	Feb. 1, 1887
351,233	Watkins, H. W.	Medical and surgical, body-wear	Oct. 19, 1886
348,077	Watson, T. A.	Telephones, magnetic	Aug. 24, 1886
361,797	Weaver, S.	Telegraphy, circuits and systems	Apr. 26, 1887
353,184	Wehrle, J. H.	Telephones, switch-boards	Nov. 23, 1886
357,055	Weil, L.	Valve-controllers	Feb. 1, 1887
357,056	Weil, L.	do	Feb. 1, 1887
355,363	Weinhaus, T. H.	Telephones, mechanical	Jan. 4, 1887
350,177	Weisgerber, W. F. and Himmer, I. C.	Clocks	Oct. 5, 1886
348,437	Weiss, C. W.	Recorders	Aug. 31, 1886
357,881	Wells, E. D.	Railway signals	Feb. 15, 1887
348,603	Wessels, E. J.	Lights, systems and appliances	Sept. 7, 1886
347,216	Westcott, C. H. and F.	Telegraphy, fire, alarms and extinguishers	Aug. 10, 1886
362,801	Westcott, F.	Lightning-rods	May 10, 1887
352,725	Westinghouse, G., jr.	Relays and sounders	Nov. 16, 1886
357,109	Westinghouse, G., jr.	Railway signals	Feb. 1, 1887
357,296	Westinghouse, G., jr.	do	Feb. 8, 1887
358,518	Westinghouse, G., jr.	Connectors	Mar. 1, 1887
358,519	Westinghouse, G., jr.	Railway signals	Mar. 1, 1887
358,520	Westinghouse, G., jr.	Valve-controllers	Mar. 1, 1887
358,521	Westinghouse, G., jr.	do	Mar. 1, 1887
358,713	Westinghouse, G., jr.	do	Mar. 1, 1887
359,303	Westinghouse, G., jr.	Applications, tools and machines	Mar. 15, 1887
360,638	Westinghouse, G., jr.	Railway signals	Apr. 5, 1887
357,295	Westinghouse, G., jr., and Schmid, A.	Magneto-electric	Feb. 8, 1887
348,646	Weston, E.	Cut-outs, thermal	Sept. 7, 1886
348,647	Weston, E.	Lights, sockets and keys	Sept. 7, 1886
348,648	Weston, E.	Meters	Sept. 7, 1886
348,649	Weston, E.	Lights, systems and appliances	Sept. 7, 1886
359,752	Wetmore, J. A.	Applications, tools and machines	Mar. 22, 1887
346,250	Wheaton, F.	Conductors, underground	July 27, 1886
348,707	Wheeler, A. D.	Telegraphy, fire	Sept. 7, 1886
359,333	Wheeler, A. D.	Recorders	Mar. 15, 1887
354,588	Wheeler, S. S. and Curtis, C. G.	Magneto-electric	Dec. 21, 1886
353,314	Wheeler, S. S. and Curtis, C. G.	Batteries, galvanic	Feb. 22, 1887
352,900	Wheless, M. and Darden, J. D.	Telephones, electric	Nov. 16, 1886
347,851	White, J. E.	Thermostats	Aug. 24, 1886
346,970	Whiting, H.	Clocks	Aug. 10, 1886
350,648	Whitney, E. R.	Cut-outs, thermal	Oct. 12, 1886
362,133	Whitney, E. R.	Applications, general	May 3, 1887
360,980	Whittier, T. P.	Alarms	Apr. 12, 1887
350,279	Wickersham, C. H.	Indicators	Oct. 5, 1886
350,790	Wicks, P. J.	Railway signals	Oct. 12, 1886
362,409	Wicks, P. J.	do	May 3, 1887
361,663	Wiese, G. A.	Lights, arc, gravity feed, gear	Apr. 19, 1887
345,561	Wightman, M. J.	Lights, systems and appliances	July 13, 1886
348,576	Wightman, M. J.	Regulators	Sept. 7, 1886
348,875	Wightman, M. J. and Lemp, H.	Lights, incandescence	Sept. 7, 1886
363,567	Wightman, M. J. and Lemp, H.	Lightning-arresters	May 24, 1887
363,568	Wightman, M. J. and Lemp, H.	Lights, sockets and keys	May 24, 1887
365,159	Wightman, M. J. and Lemp, H.	Cut-outs, mechanical	June 21, 1887
358,910	Wildt, E. A.	Bells	Mar. 8, 1887
355,491	Wiley, G. L.	Conductors	Jan. 4, 1887
355,492	Wiley, G. L.	do	Jan. 4, 1887
355,493	Wiley, G. L.	do	Jan. 4, 1887
358,317	Wiley, G. L.	Telephones, systems	Feb. 22, 1887
361,737	Wilkins, G. A.	Magneto-electric, hand-machines	Apr. 26, 1887
348,708	Willets, J. P. and Crolius, E. R.	Lights, systems and appliances	Sept. 7, 1886
350,515	Williams, B.	Conductors, underground	Oct. 12, 1886
354,290	Williams, B.	do	Dec. 14, 1886
358,095	Williams, B.	do	Feb. 22, 1887
353,393	Williams, T. D., Eitemiller, G. M. and Luckock, J. S.	Railway signals	Nov. 30, 1886
347,218	Williamson, D.	Lights, arc	Aug. 10, 1886
354,291	Williamson, D.	Lights, systems and appliances	Dec. 14, 1886
354,292	Williamson, D.	Magneto-electric	Dec. 14, 1886
355,738	Williamson, D.	do	Jan. 11, 1887
350,610	Willis, C. F.	Telephones, calls	Oct. 12, 1886
355,739	Wilmarth, F. H.	Cut-outs, electro-magnetic	Jan. 11, 1887
352,596	Wilson, G. W.	Telephones, systems	Nov. 16, 1886
346,971	Wilson, J.	Insulators	Aug. 10, 1886
346,972	Wilson, J.	do	Aug. 10, 1886
347,454	Wilson, J.	do	Aug. 17, 1886
349,022	Wilson, J.	do	Sept. 14, 1886
351,681	Wilson, J. C.	Recorders	Oct. 26, 1886
352,435	Wilson, J. C.	Telegraphy, printing	Nov. 9, 1886
362,135	Wilson, J. C.	Electro-magnets	May 3, 1887



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365,216	Winekler, E. and Heilmann, J. J	Applications, tools and machines	June 21, 1887
352,436	Winton, H. D	Insulators	Nov. 9, 1886
352,437	Winton, H. D	do	Nov. 9, 1886
361,248	Winton, H. D	Applications, general	Apr. 12, 1887
354,001	Wirsching, A	Telegraphy, printing	Dec. 7, 1886
345,755	Wirt, C	Galvanometers	July 20, 1886
345,756	Wirt, C	Batteries, galvanic	July 20, 1886
355,741	Wittenberg, C	Telephones, systems	Jan. 11, 1887
355,742	Wittenberg, C	Receivers	Jan. 11, 1887
355,743	Wittenberg, C	do	Jan. 11, 1887
355,744	Wittenberg, C	do	Jan. 11, 1887
355,745	Wittenberg, C	do	Jan. 11, 1887
355,746	Wittenberg, C	do	Jan. 11, 1887
359,306	Wittenberg, C	Telephones, systems	Mar. 15, 1887
359,307	Wittenberg, C	Recorders	Mar. 15, 1887
359,308	Wittenberg, C	do	Mar. 15, 1887
359,309	Wood, F. B	Bells	Mar. 15, 1887
364,619	Woods, G. T	Relays and sounders	June 7, 1887
347,754	Woodward, H	Batteries, galvanic	Aug. 17, 1886
350,519	Woolley, L. G	Cut-outs, electro-magnetic	Oct. 12, 1886
351,419	Woolley, L. G	Valve-controllers	Oct. 26, 1886
361,249	Worms, E. and Balé, J	Applications, general	Apr. 12, 1887
348,606	Worth, A. B	do	Sept. 7, 1886
352,600	Wright, C. G	Telegraphy, perforating	Nov. 16, 1886
360,077	Wright, G. H	Railway signals	Mar. 29, 1887
363,106	Wynne, F	Electro-magnets, machines for winding	May 17, 1887
345,658	Young, J. P	Telephones, electric	July 13, 1886
363,498	Zeiner, J	Clocks	May 24, 1887
352,105	Zipernowsky, K., Déri, M. and Bláthy, O. T.	Induction coils	Nov. 2, 1886
357,885	Zoeller, T. J	Telegraphy, fire	Feb. 15, 1887

## REISSUES.

10,838	Curtiss, R. M	Applications, tools and machines. (Re-issue of 314,167.)	May 31, 1887
10,768	Johnson, W. S	Thermostats. (Re-issue of 331,406)	Sept. 28, 1886
10,802	Johnson, W. S	Do. (Re-issue of 342,018)	Jan. 25, 1887
10,791	Kells, C. E., jr	Do. (Re-issue of 322,612)	Dec. 21, 1886
10,816	Snowberger, J	Magneto-electric. (Re-issue of 338,197)	Mar. 8, 1887
10,846	Williams, J. B	Conductors. (Re-issue of 335,495)	June 21, 1887





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